HCD-VX550

SERVICE MANUAL

Chinese Model

HCD-VX550 is the Amplifier, Video CD player, Tape Deck and Tuner section in MHC-VX550.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM38LH-5BD36L
	Base Unit Name	BU-26BD36L
	Optical Pick-up Name	KSS-213D/Q-RP
Tape deck Section	Model Name Using Similar Mechanism	HTC-V5550
	Tape Transport Mechanism Type	TCM-230AWR2

SPECIFICATIONS

Amplifier section

The following measured at AC 120, 220, 240 V 50/60 Hz
DIN power output (rated) 110 + 110 W
(8 Ω at 1 kHz, DIN)
Continuous RMS power output (reference)
140 + 140 W
(8 Ω at 1 kHz, 10% THD)

Inputs
MD IN: (phono jacks) voltage 450 mV, impedance 47 kΩ
VIDEO (AUDIO) IN: (phono jacks) voltage 250 mV, impedance 47 kΩ
MIC 1/2 (phone jack): sensitivity 1 mV, impedance 10 kΩ

Outputs
MD OUT (phono jacks): voltage 250 mV
impedance 1 kΩ
VIDEO OUT (phono jack):
max,output level 1Vp-p, unbalanced, Sync negative, load impedance 75 Ω
S-VIDEO OUT (4-pin/ mini-DIN jack):
Y: 1Vp-p, unbalanced, Sync negative,
C: 0.286Vp-p,
load impedance 75 Ω
PHONES (stereo phone jack):
accepts headphones of 8 Ω or more
SPEAKER: accepts impedance of 8 to 16 Ω
SUPER WOOFER Voltage 1 V, impedance1 kΩ

SUPER VIDEO CD/VIDEO CD /CD player section

System	Compact disc and digital audio and video system
Laser	Semiconductor laser (λ=780nm) Emission duration: continuous
Laser output	Max. 44.6 µW* *This output is the value measured at distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Frequency response	2 Hz - 20 kHz (±0.5 dB)
Wavelength	780 -790 nm
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Video color system format	NTSC, PAL

Continued on next page

MINI Hi-Fi COMPONENT SYSTEM

MICROFILM

SONY®

CD OPTICAL DIGITAL OUT
(Square optical connector jack, rear panel)
Wavelength 660 nm
Output Level –18 dBm

Tape player section

Recording system 4-track 2-channel stereo
Frequency response 40 - 13,000 Hz (±3 dB),
(DOLBY NR OFF) using Sony TYPE I cassette
40-14,000 Hz (± 3 dB),
using Sony TYPE II cassette

Tuner section

Fm stereo, FM/ AM superheterodyne tuner

FM tuner section

Tuning range 87.5-108.0 MHz
Antenna FM lead antenna
Antenna terminals 75 Ω unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
2 Band type: 531-1,602 kHz
(with the interval set at 9 kHz)
530-1,710 kHz
(with the interval set at 10 kHz)

3 Band type:
MW: 531-1,602 kHz
(with the interval set at 9 kHz)
530-1,710 kHz
(with the interval set at 10 kHz)
SW: 5.95-17.90 MHz
(with the interval set at 5 kHz)
Antenna AM loop antenna
Antenna terminals External antenna terminal
Intermediate frequency 450 kHz

General

Power requirements 220 V AC, 50/ 60 Hz
Power consumption: 160 W
Dimensions (w/h/d) Approx. 280 × 340 × 395 mm
Mass: Approx. 10.0 kg

Design and specifications are subject to change without notice.

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SECTION 1
SERVICING NOTES

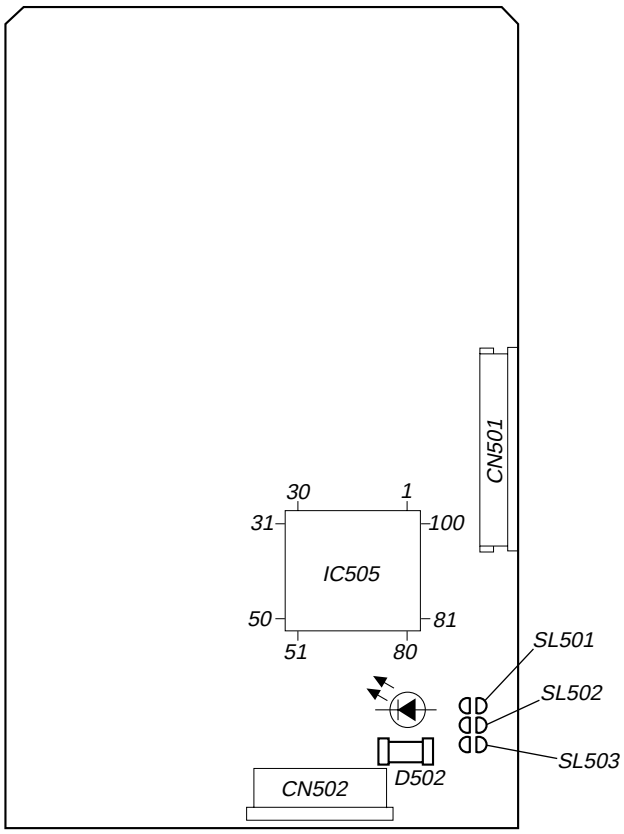
SELF-DIAGNOSIS

This unit is equipped with a self-diagnosis function.
The function is used for diagnosing the conditions of the circuits of the VIDEO board.
The circuits can be determined if normal or abnormal by the lighting of D502 of the VIDEO board.

Lighting of D502

When lit : Operates normally
Blinks repeatedly : The circuit may be faulty.

VIDEO Board (SIDE B)



NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

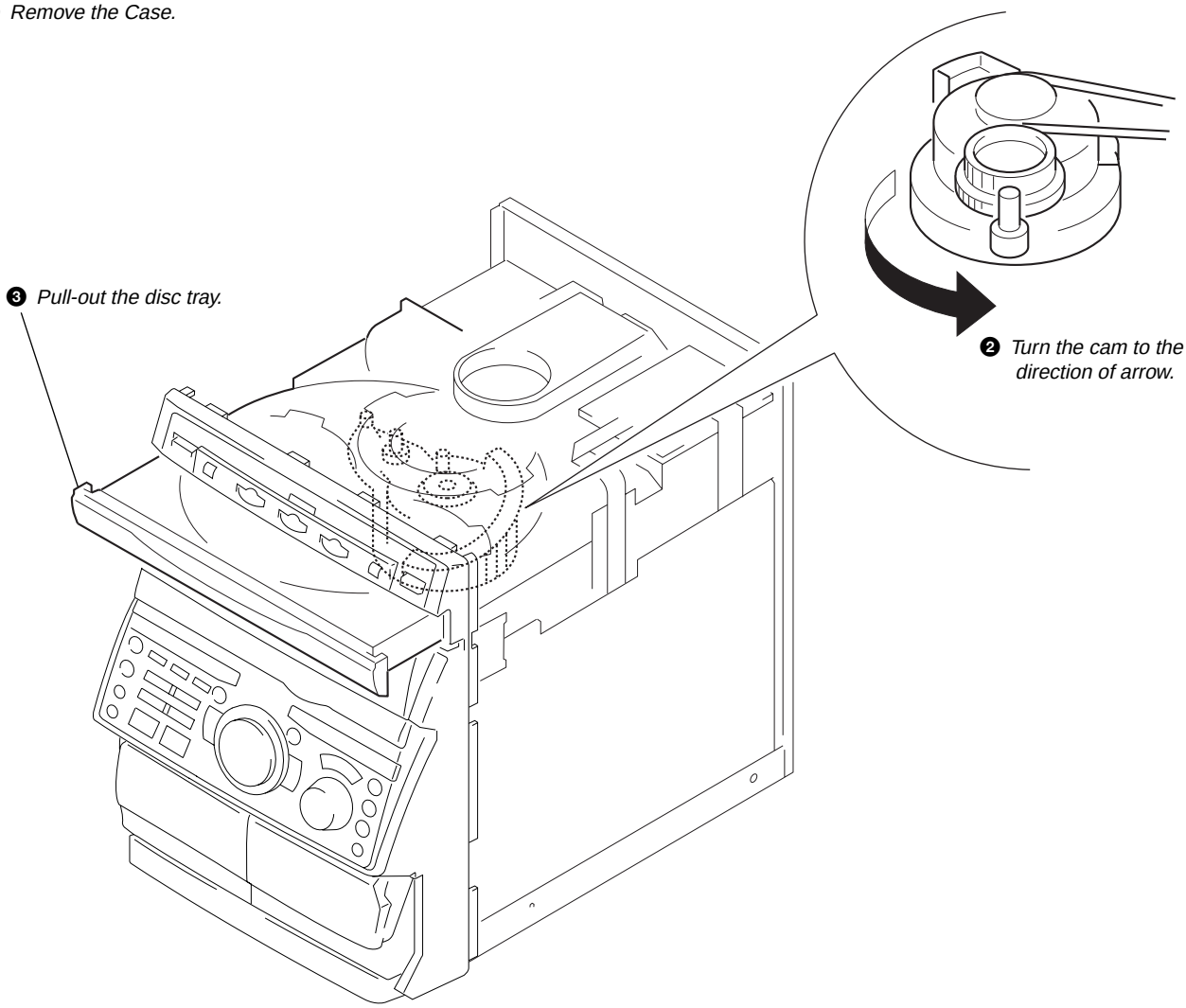
与安全有关的零部件须知

在原理图上用阴影及 ⚠ 标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

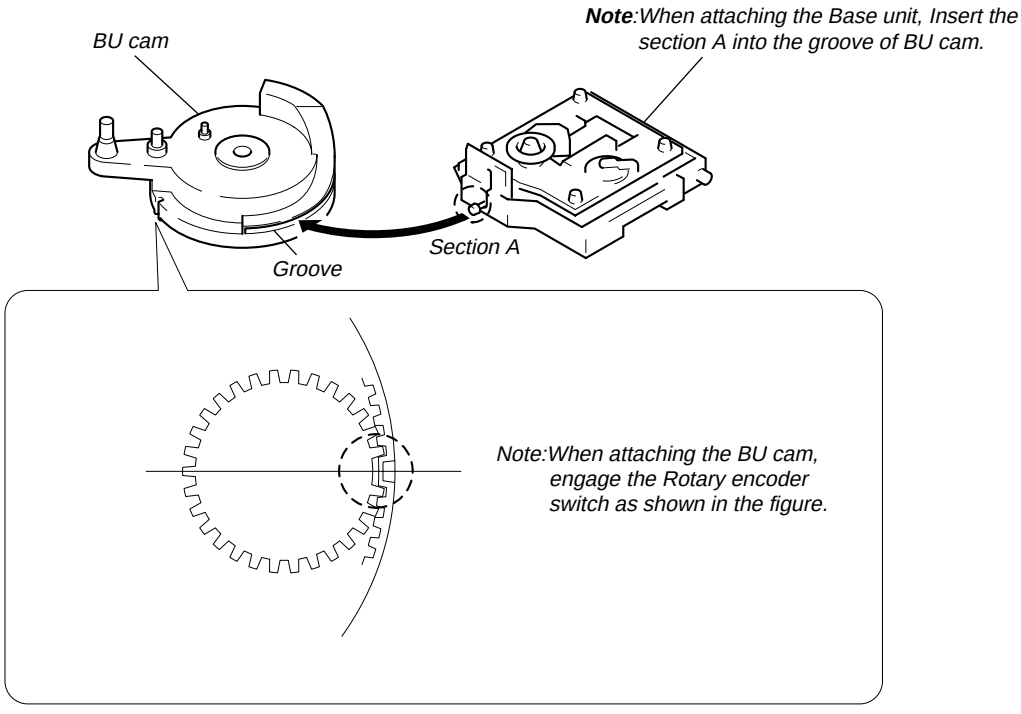
在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS' OFF.

❶ *Remove the Case.*



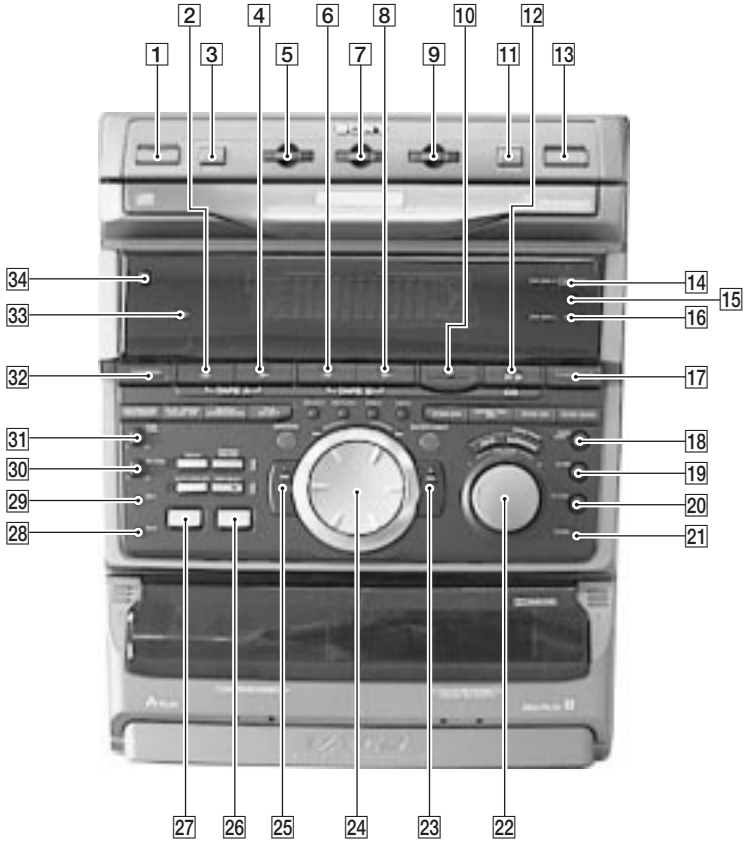
NOTE FOR INSTALLATION (ROTARY ENCODER)


BU cam
Note:When attaching the Base unit, Insert the section A into the groove of BU cam.
Section A
Groove
Note:When attaching the BU cam, engage the Rotary encoder switch as shown in the figure.

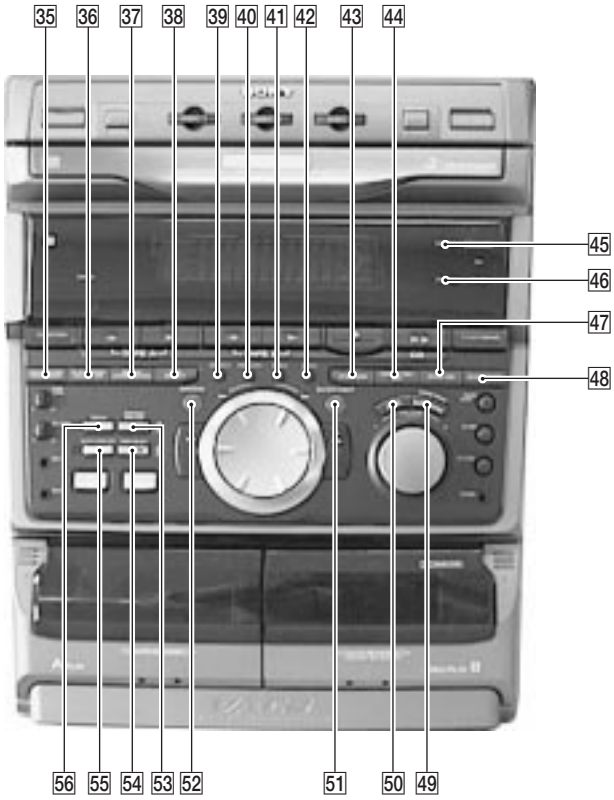
SECTION 2
GENERAL

• LOCATION OF CONTENTS

Front View



1 I/⏻ button
2 ◄ TAPE A button and indicator
3 (STANDBY) DEMO button
4 ► TAPE A button and indicator
5 DISC 1 button
6 ◄ TAPE B button and indicator
7 DISC 2 button
8 ► TAPE B button and indicator
9 DISC 3 button
10 ■ button
11 DISC SKIP, EX-CHANGE button
12 ►II CD button and indicator
13 ⏏ button
14 SVCD/VCD indicator
15 PBC indicator
16 PBC OFF indicator
17 TUNER/BAND button
18 REC PAUSE/START button and indicator
19 HI-DUB button
20 CD SYNC button
21 PHONE jack
22 VOLUME knob
23 + ►► button and indicator
24 JOG dial and indicator
25 – ◄◄ button and indicator
26 CD FLASH button
27 CD LOOP button
28 MIC 2 jack
29 MIC 1 jack
30 MIC LEVEL knob
31 ECHO LEVEL knob
32 FUNCTION button
33 SYNC EQ indicator
34 EFFECT indicator

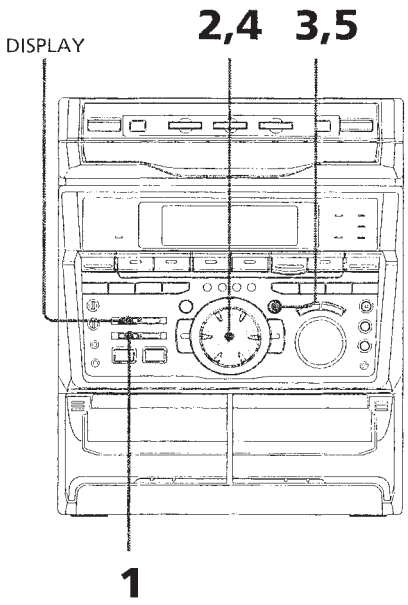


35 EDIT/DIRECTION
TUNER MEMORY button
36 PLAY MODE, DOLBY NR button
37 REPEAT STEREO/MONO button
38 FILE SELECT button
39 SELECT button
40 RETURN button
41 PREV button
42 NEXT button
43 CD NON-STOP button and indicator
44 KARAOKE PON/MPX button
45 SYNC BASS H indicator
46 SYNC BASS L indicator
47 SYNC EQ button
48 SYNC BASS button
49 CINEMA SPACE/SURROUND button
50 DBFB button
51 ENTER/NEXT button and indicator
52 GROOVE button and indicator
53 SPECTRUM ANALYZER button
54 TIMER SELECT button and indicator
55 CLOCK/TIMER SET button
56 DISPLAY button

This section is extracted from instruction manual.

Step 2: Setting the time

You must set the time before using the timer functions.



1 Press CLOCK/TIMER SET.
The hour indication flashes.

2 Turn the jog dial to set the hour.

3 Press ENTER/NEXT.
The minute indication flashes.

4 Turn the jog dial to set the minute.

5 Press ENTER/NEXT.
The clock starts working.

Tip

If you've made a mistake, start over from step 1.

To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

1 Press CLOCK/TIMER SET.
2 Turn the jog dial to select SET CLOCK.
3 Press ENTER/NEXT.
4 Perform steps 2 through 5 above.

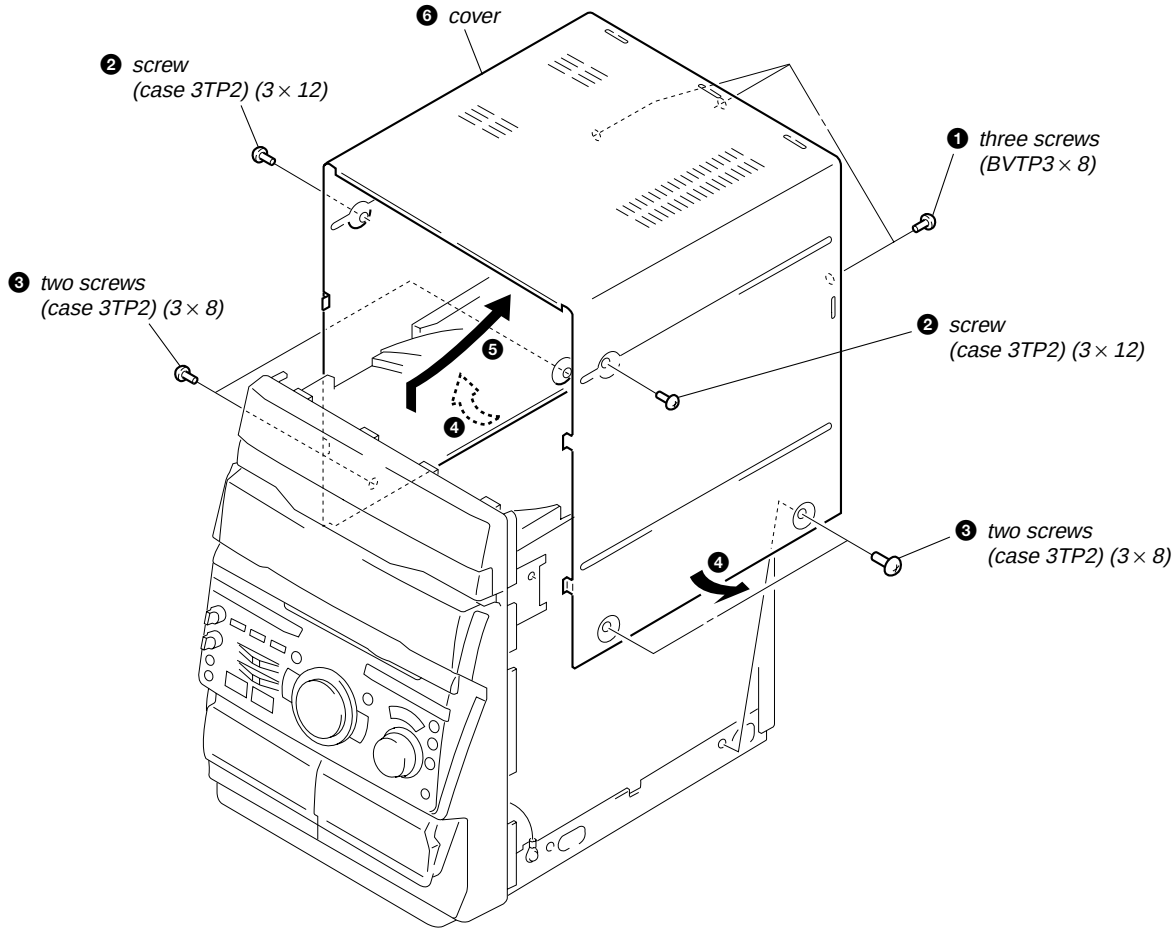
Note

The clock settings are cancelled when you disconnect the power cord or if a power failure occurs.

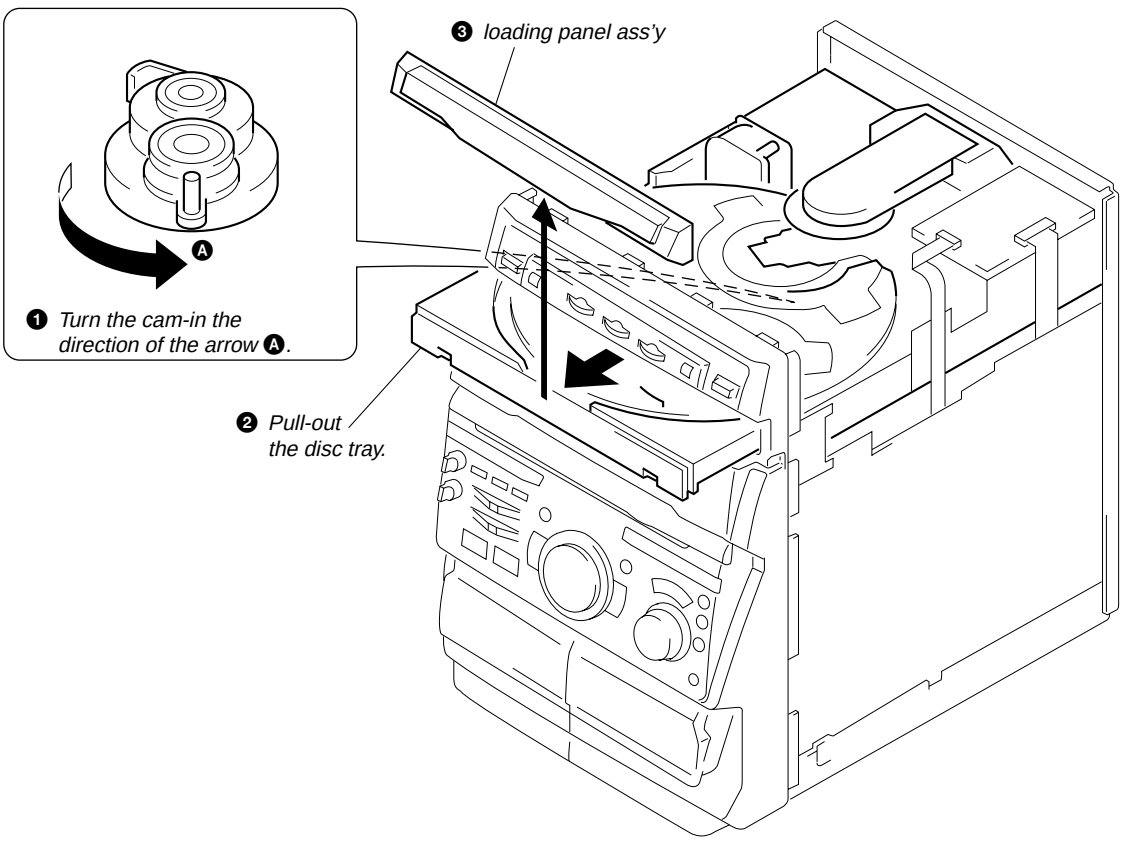
SECTION 3
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

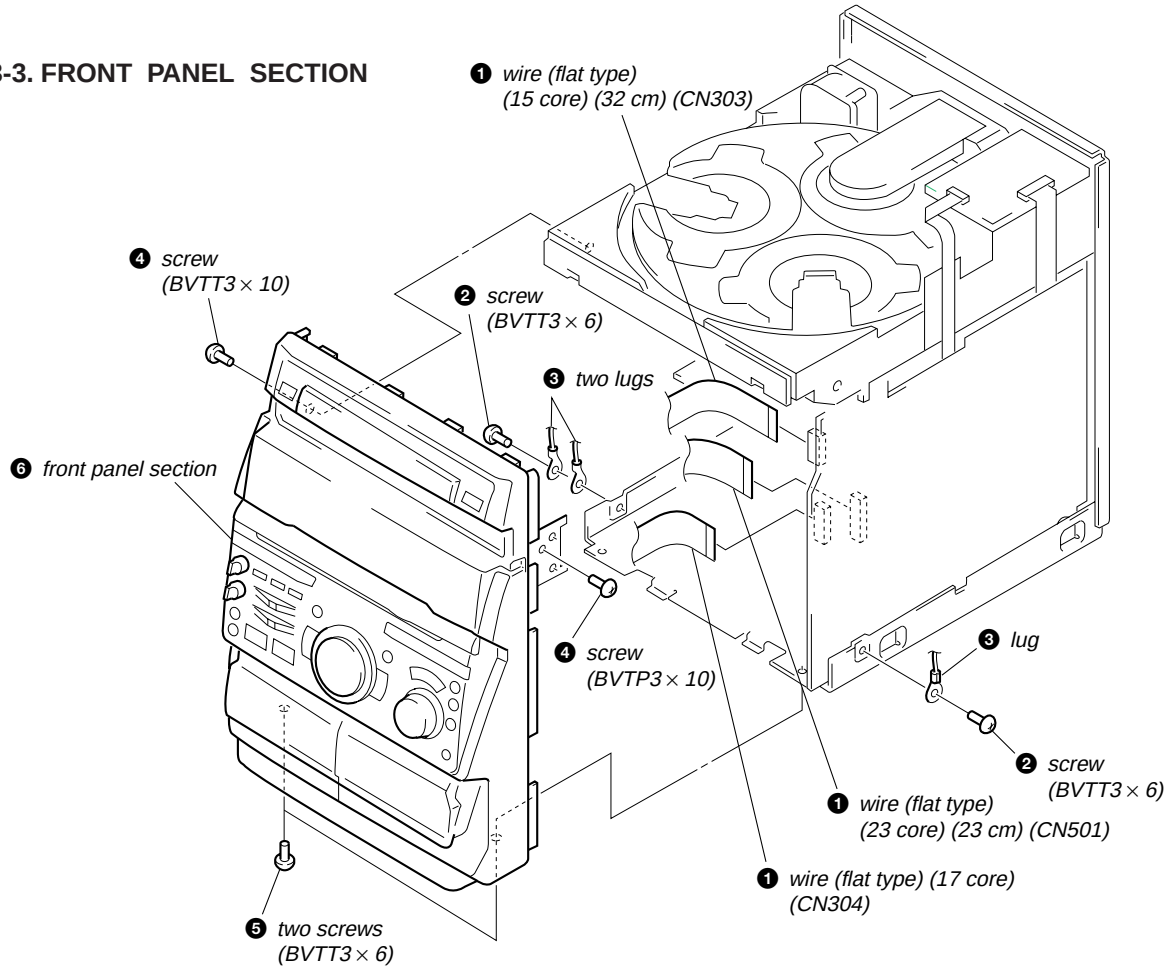
3-1. COVER



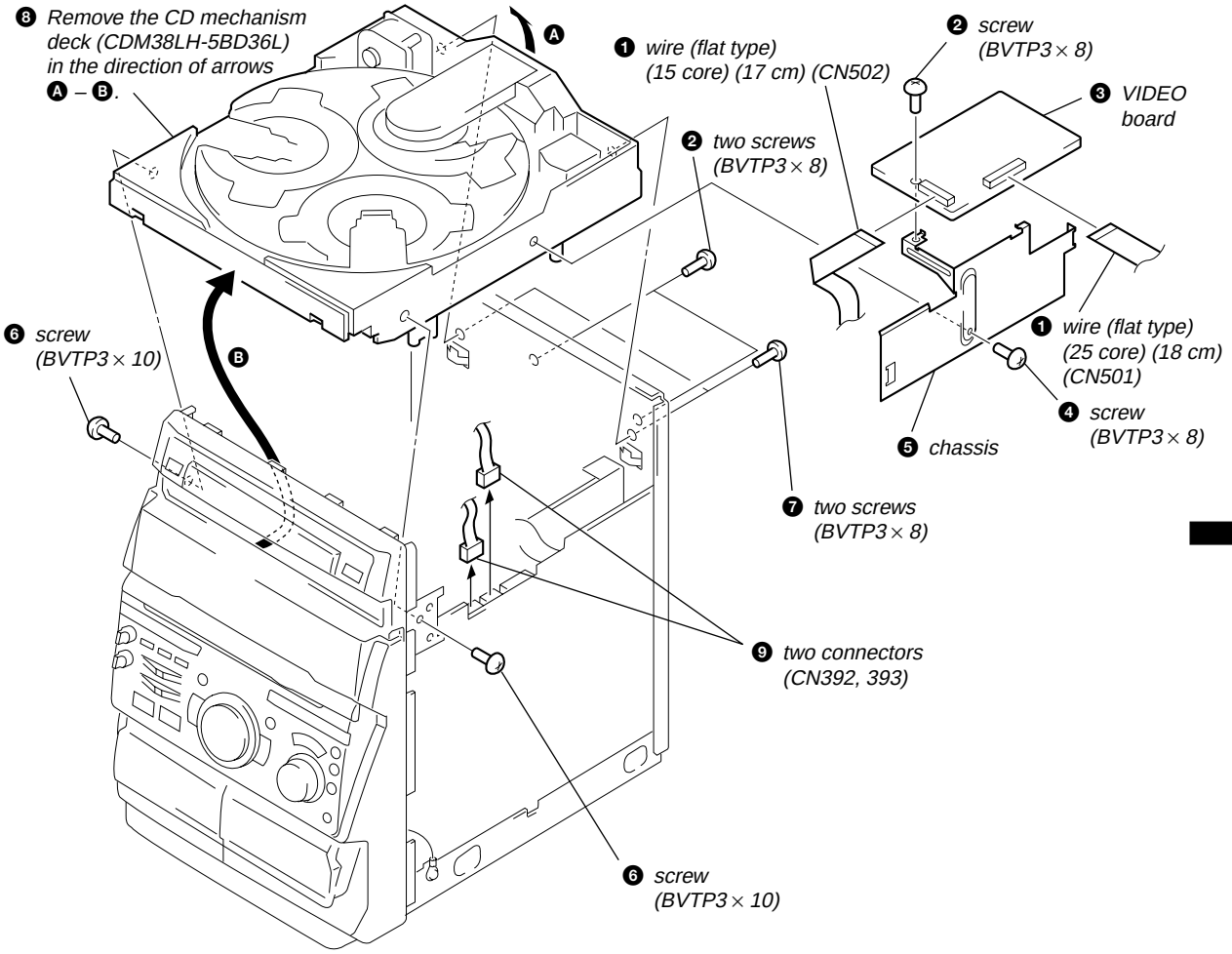
3-2. LOADING PANEL ASS'Y



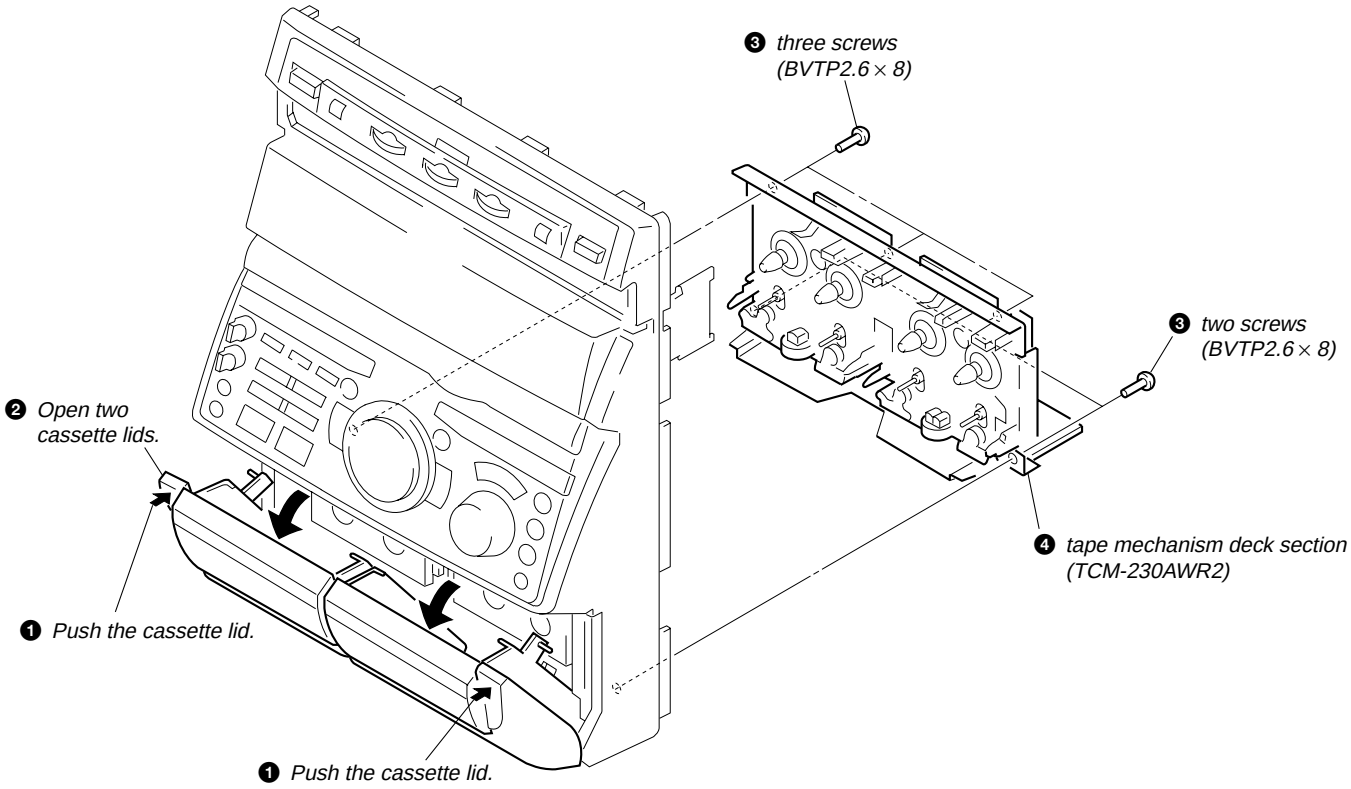
3-3. FRONT PANEL SECTION



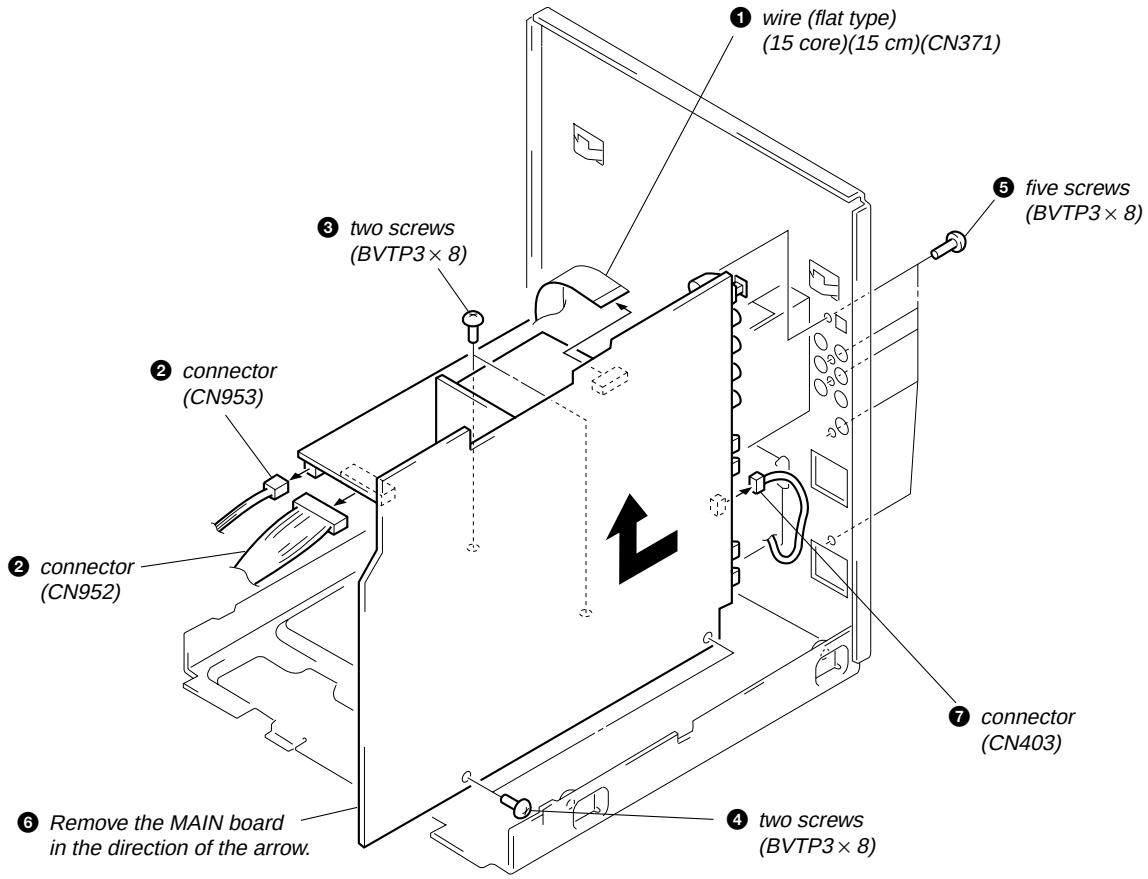
3-4. VIDEO BOARD, CD MECHANISM DECK SECTION (CDM38LH-5BD36L)



3-5. TAPE MECHANISM DECK SECTION (TCM-230AWR2)



3-6. MAIN BOARD



SECTION 4
TEST MODE

[MC Cold Reset]

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Turn the power ON or set to the DEMO mode.
2. Press three buttons of ■ , ENTER/NEXT , and I/⏻ simultaneously.
3. The set is reset, and displays “COLD RESET”, then becomes DEMO mode.

[MC Hot Reset]

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Turn the power ON or set to the DEMO mode.
2. Press three buttons of ■, ENTER/NEXT, and DISC1 simultaneously.
3. The set is reset, and becomes standby state.

[Change-over the AM Tuning Interval] (EXCEPT Saudi Arabia model)

- The AM tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Select the function “TUNER”, and press the TUNER/BAND button to select the BAND “AM (MW)”.
3. Press the I/⏻ button to turn the power OFF.
4. Press the ENTER/NEXT and I/⏻ buttons simultaneously, and the display on the fluorescent indicator tube changes to “AM 9 k STEP” or “AM 10 k STEP”, and thus the tuning interval is changed over.

[CD Delivery Mode]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the I/⏻ button to turn the power ON.
2. Press the CD LOOP and I/⏻ buttons simultaneously.
3. A message “LOCK” is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

[LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

Procedure:

1. Press three buttons of ■ , ENTER/NEXT , and DISC1 simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
   Press the DISC1 button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays “K 0 J0 V0”. Each time a button is pressed, “K” value increases. However, once a button is pressed, it is no longer taken into account.
   “J” value increases like 1, 2, 3 ... if turn the JOG dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.
   “V” value increases like 1, 2, 3 ... if turn the VOLUME dial clockwise, or it decreases like 0, 9, 8 ... if turn the JOG dial counterclockwise.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[Aging Mode]

This mode can be used for operation check of tape deck section. Tape deck section work in parallel.

- If an error occurred:
  The aging operation stops and display then status.
- If no error occurs:
  The aging operation continues repeatedly.

Procedure:

1. Load the tapes into the decks A and B respectively.
2. Press the FUNCTION button to select the function "CD".
3. Press the PLAY MODE button to set the "ALL DISCS" mode, and press the REPEAT button to "REPEAT" off.
4. Press three buttons of ■ , ENTER/NEXT, and DISC SKIP/EX-CHANGE simultaneously.
5. The aging mode is activated, if the indicator of disc tray number on the fluorescent indicator tube is blinking.
6. To exit from the aging mode, press the I/⏻ button to turn the power OFF and operate the cold reset. (Refer to the "MC Cold Reset")

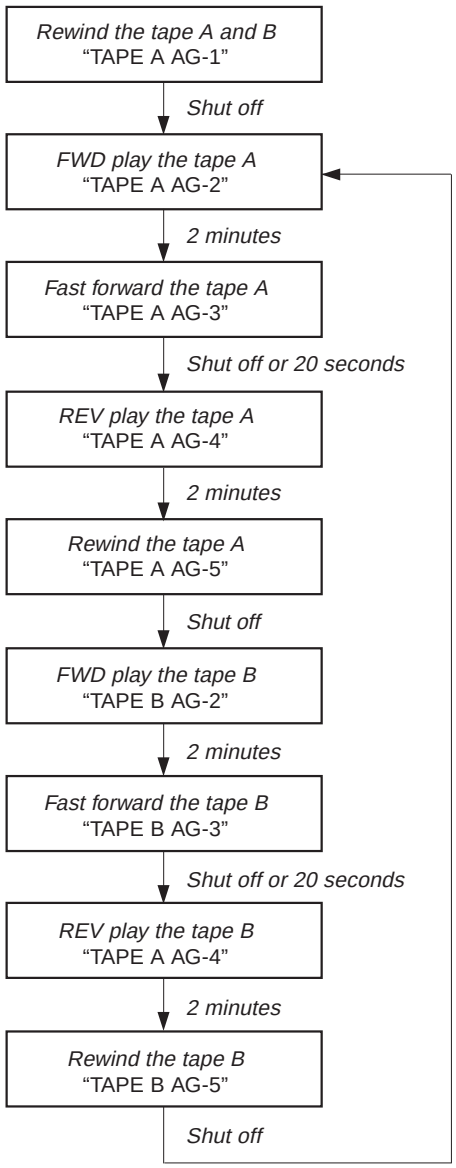
1. Display at the Aging Mode

- Display operating state of tape deck section alternately.
- If an error occurred, stop display.

2. Tape Deck Section

- The sequence during the aging mode is following as below.
- If an error occurred, stop display that step.

Aging mode sequence (Tape deck section) :



Note: "TAPE ∗ AG-∗" is display of each step.

[VIDEO CD Color-bars Mode]

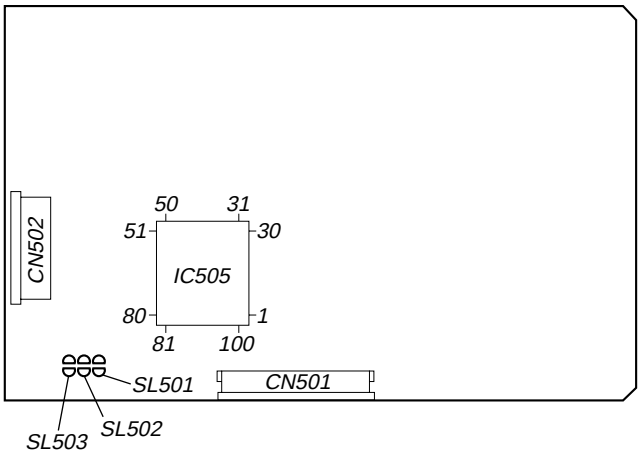
On this mode, the data of the color-bars signal as a picture signal and the 1 kHz sine wave signal as a sound signal are output by the mechanism controller (IC505) for the video CD signal check. When measurement of the voltage and waveform on the VIDEO board, perform it in this mode.

For reference, the color-bars signal can be observed at J502 (VIDEO OUT) and the sound signal can be observed at J101 (VIDEO/MD (AUDIO) OUT) using an oscilloscope.

Procedure:

1. Short the both ends of the land of SL503 of the VIDEO board.
2. Turn the power on. Press the FUNCTION button to select CD.
3. The color-bars appears when the CD is in stop status, and it disappears when the CD goes in play status.
4. After measuring, remove the lead wire connected.

VIDEO board (SIDE B)



SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   - record/playback heads
   - erase head
   - capstan
   - pinch rollers
   - rubber belts
   - idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	31 to 71 g • cm (0.43 - 0.98 oz • inch)
FWD back tension	CQ-102C	2 to 6 g • cm (0.03 - 0.08 oz • inch)
REV	CQ-102RC	31 to 71 g • cm (0.43 - 0.98 oz • inch)
REV back tension	CQ-102RC	2 to 6 g • cm (0.03 - 0.08 oz • inch)
FF/REW	CQ-201B	71 to 143 g • cm (0.99 - 1.99 oz • inch)
FWD tension	CQ-403A	100 g or more (3.53 oz or more)
REV tension	CQ-403R	100 g or more (3.53 oz or more)

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION | 0 dB = 0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.
8. Set to the DOLBY NR OFF.
9. Set to the test mode.
   (1) Press the [I/⏻] button to turn the power ON.
   (2) Select the function "TAPE A or B".
   (3) Press the button of [■] , [ENTER/NEXT] , and [DISC3] simultaneously, to set the tape deck test mode and blink the indicator of disc tray number on the fluorescent indicator tube.
   (4) To exit from the test mode, press the [I/⏻] button.

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

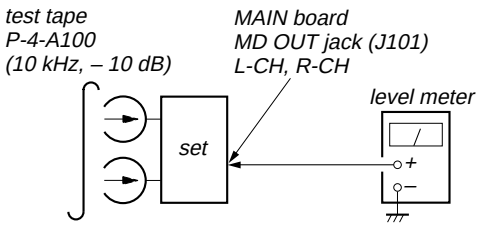
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

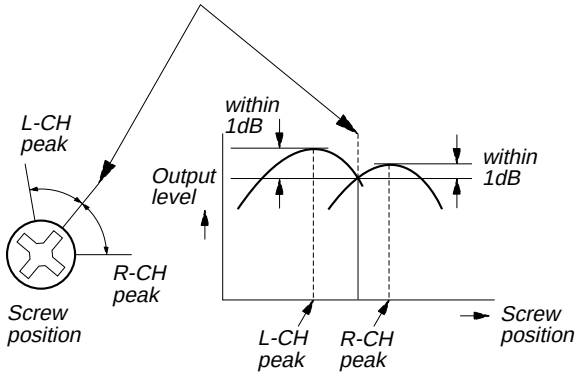
Note: Perform this adjustments for both decks

Procedure:

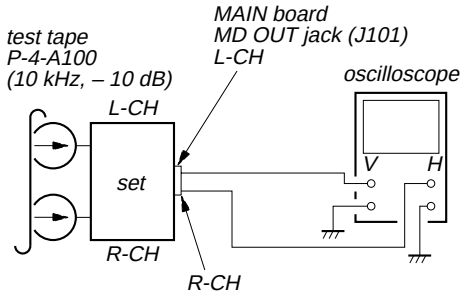
1. Mode: Playback (FWD)

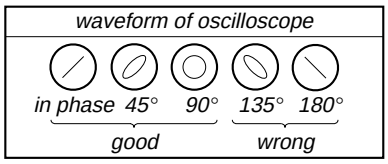


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



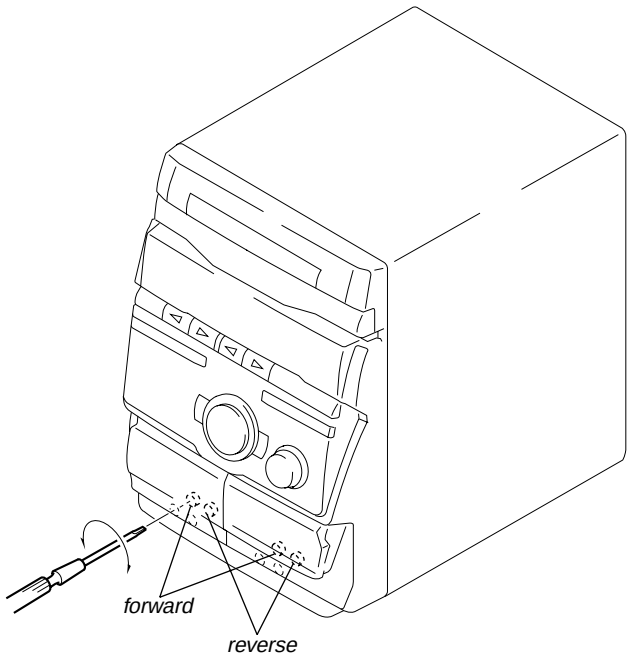
3. Mode: Playback





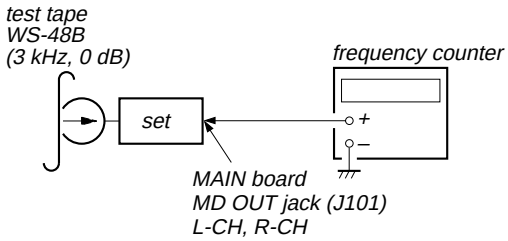
4. Repeat step 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).



Tape Speed Adjustment DECK B

Mode: Playback

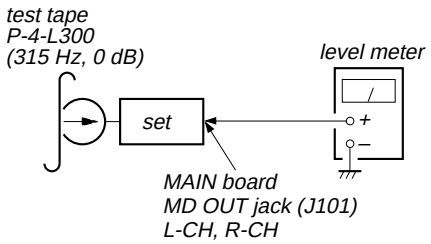


1. Insert the WS-48B into the deck B.
2. Press the ▶ button on the deck B.
3. Press the HI-DUB button in playback mode.
   Then at HIGH speed mode.
4. Adjust RV1001 on the LEAF SW board do that frequency counter reads 6,000 ± 180 Hz.
5. Press the HI-DUB button.
   Then back to NORMAL speed mode.
6. Adjust RV1002 on the LEAF SW board so that frequency counter reads 3,000 ± 90 Hz.

Adjustment Location: LEAF SW board
Sample value of Wow and Flutter: 0.3% or less W.RMS (JIS)
(WS-48B)

Playback level Adjustment DECK A DECK B

Procedure:
Mode: Playback



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within specification values as follows.

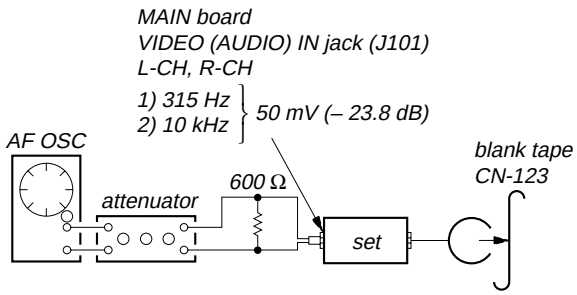
Specification Values:
J101 PB level: 301.5 to 338.3 mV (-8.2 to -7.2 dB) level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

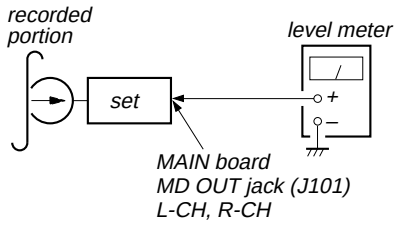
REC Bias Adjustment DECK B

Procedure:

1. Mode: Record
   FUNCTION: VIDEO



2. Mode: Playback



3. Confirm playback the signal recorded in step 1 become specification values as follows.
   If these values are out of specification values, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1and 2.

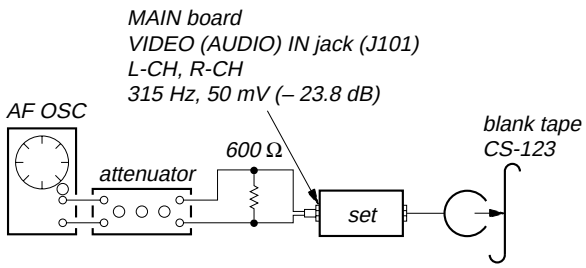
Specification values: Playback output of 315 Hz to playback output of 10 kHz: ± 0.5 dB

Adjustment Location: AUDIO board

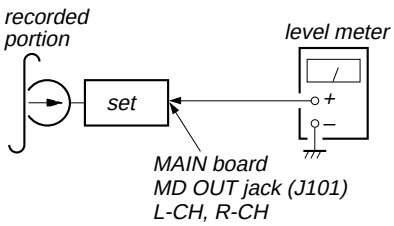
REC Level Adjustment DECK B

Procedure:

1. Mode: Record
   FUNCTION: VIDEO



2. Mode: Playback

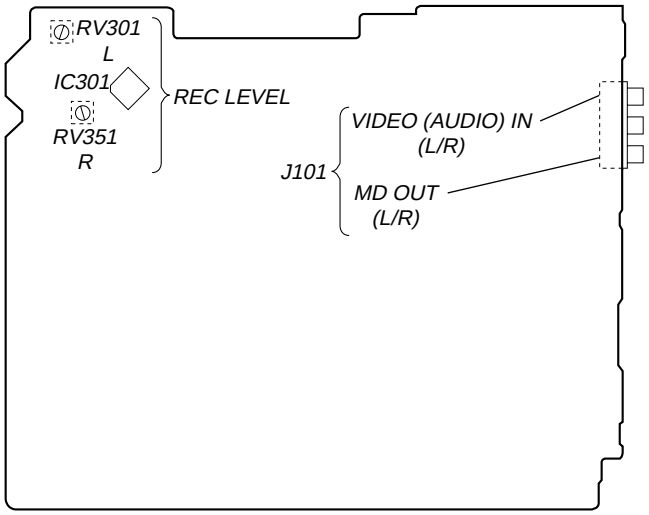


3. Confirm playback the signal recorded in step 1 become specification values as follows.
   If these values are out of specification values, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 1 and 2.

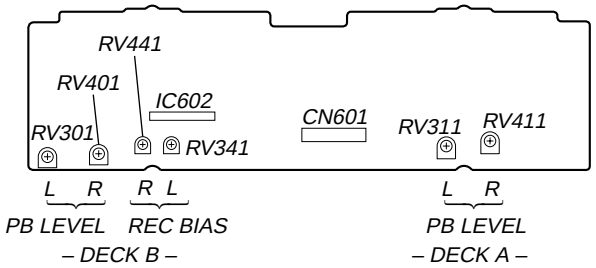
Specification values:
J101 PB level: 47.2 to 53.0 mV (- 24.3 to - 23.3 dB)

Adjustment Location: MAIN board

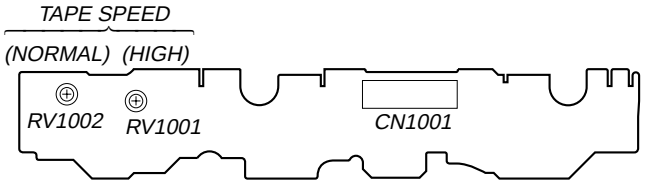
MAIN BOARD (Conductor Side)



AUDIO BOARD (Component Side)



LEAF SW BOARD (Component Side)

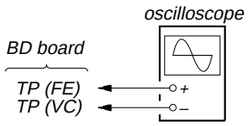


CD SECTION

Note:

1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

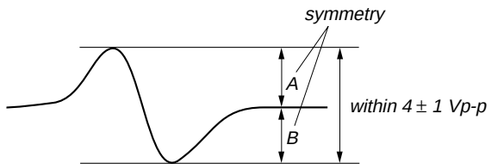
S-Curve Check



Procedure:

1. Connect oscilloscope to TP (FE).
2. Connect between TP (FE1) and TP (VC) by lead wire.
3. Connect between TP (AGCCON) and TP (GND) by lead wire.
4. Turn the power ON.
5. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
6. Cofirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 4 ± 1 Vp-p.

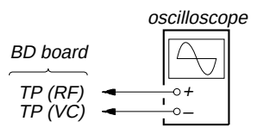
S-curve waveform



7. After check, remove the lead wire connected in step 2 and 3.

Note: • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

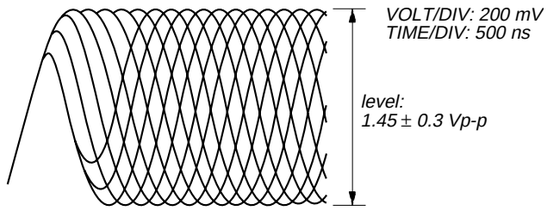
RF Level Check



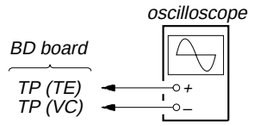
Procedure:

1. Connect oscilloscope to TP (RF).
2. Connect between TP (AGCCON) and TP (GND) by lead wire.
3. Turn the power ON.
4. Load a disc (YEDS-18) and press the ▶II button to play.
5. Confirm that the oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

Note: Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.



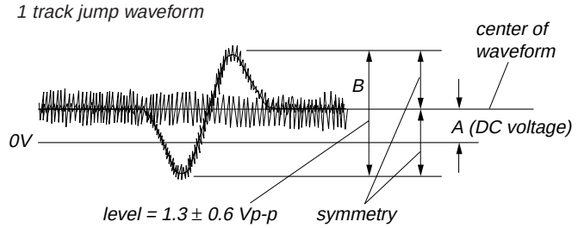
E-F Balance (1 Track Jump) Check



Procedure :

1. Connect oscilloscpe to TP (TE) and TP (VC).
2. Turn the power ON.
3. Load a disc (YEDS-18) and playback the number five track.
4. Press the ▶II (CD) button. (Becomes the 1 track jump mode)
5. Confirm that the level B and A (DC voltage) on the oscilloscope waveform.

1 track jump waveform

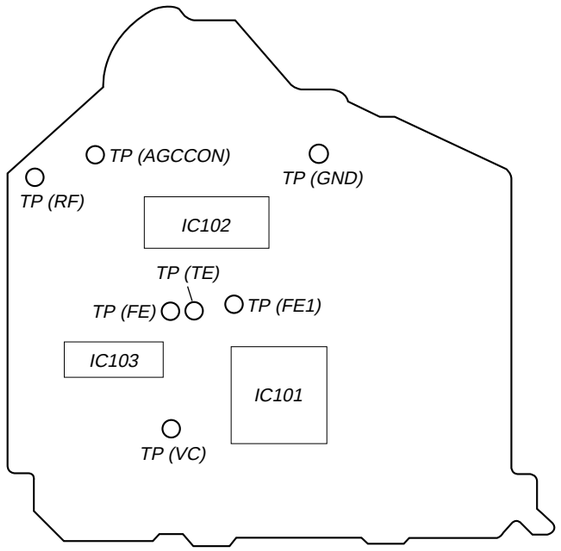


Specified level: $\frac{A}{B} \times 100$ = less than ± 22%

6. After check, remove the lead wire connected in step 1.

Checking Location:

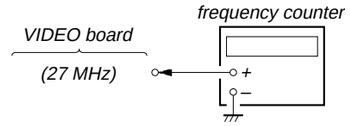
BD BOARD (Side B)



VIDEO SECTION

Frequency Adjustment

Connection:

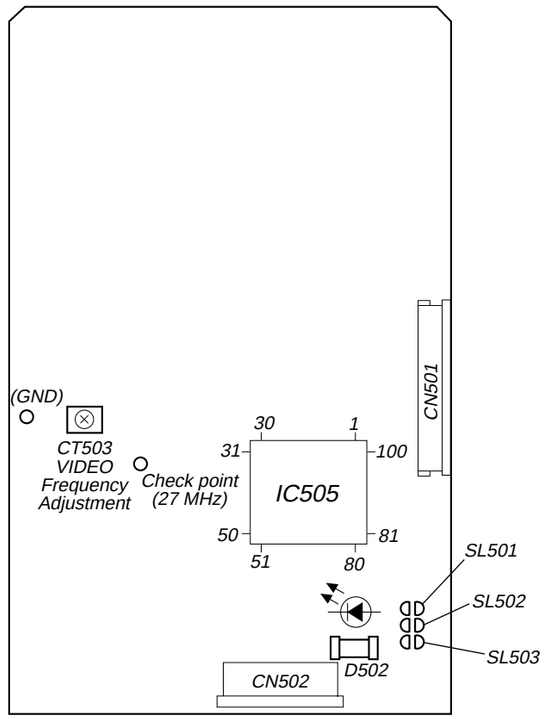


Procedure:

1. Connect the frequency counter to check point of the VIDEO board.
2. Turned power switch on.
3. Press the FUNCTION button to select the CD.
4. Adjust CT503 on the VIDEO board so that the frequency counter reading 27.0 MHz ± 80 Hz at stop status.

Adjustment Location:

VIDEO Board (SIDE B)



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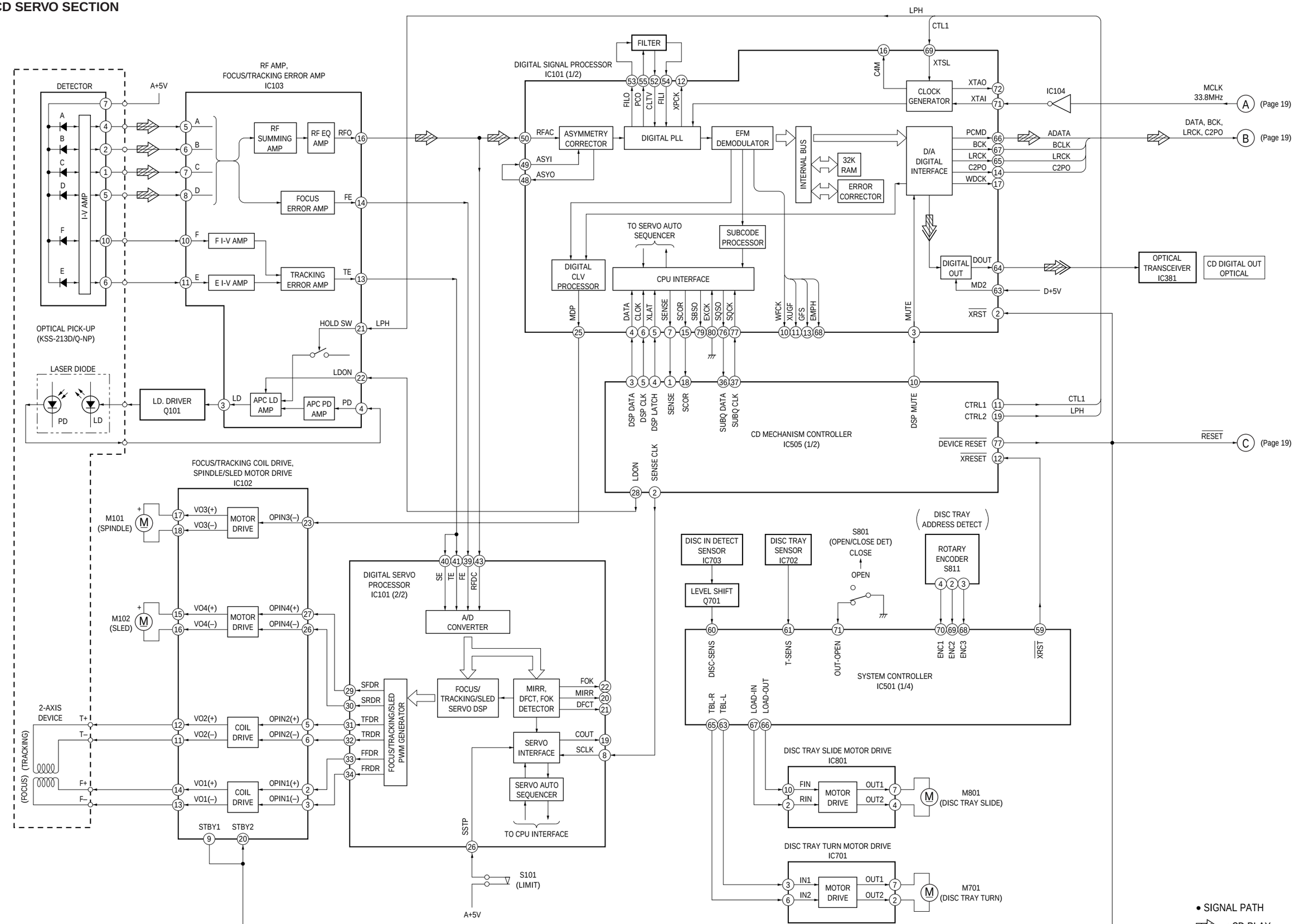
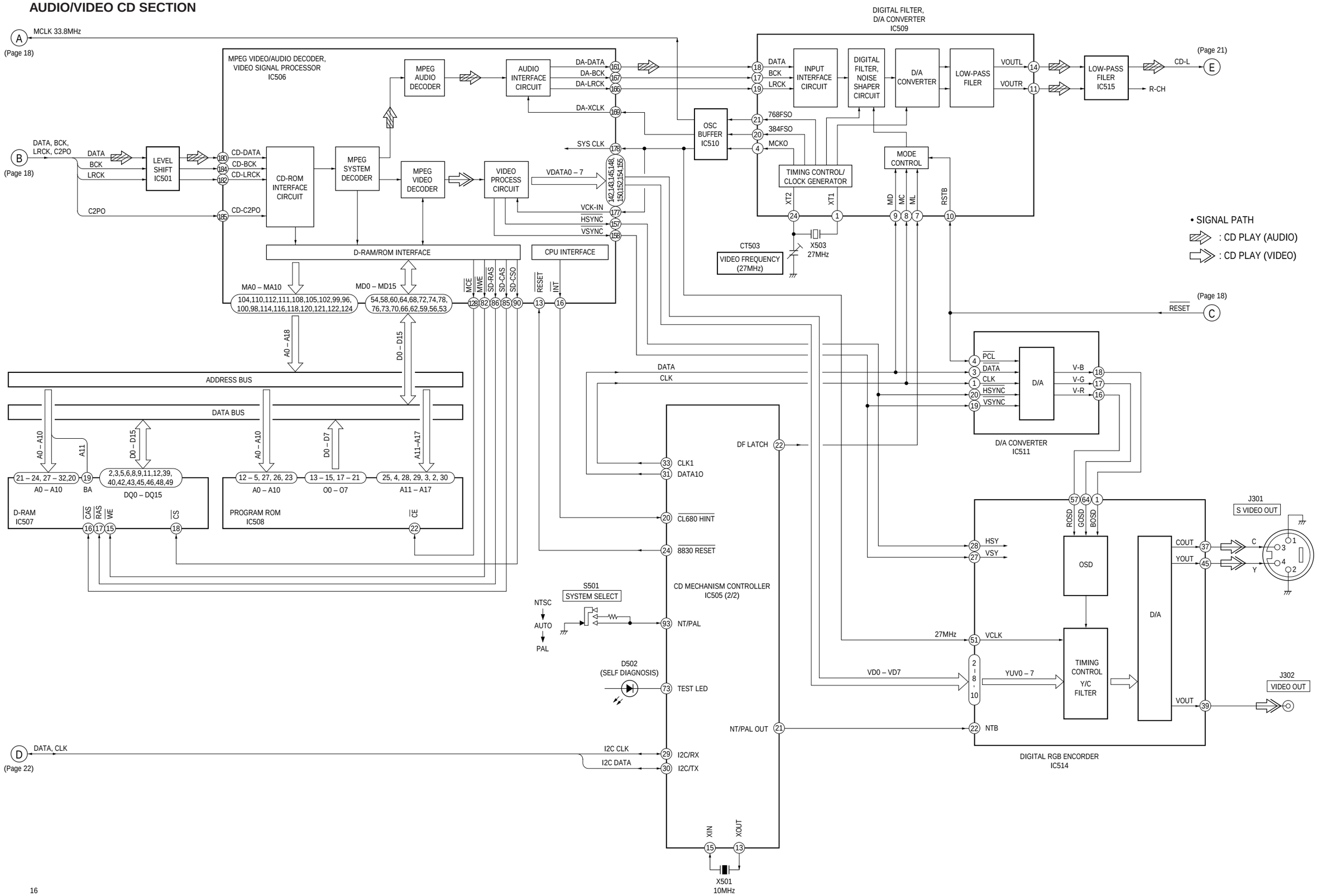
SECTION 7
DIAGRAMS

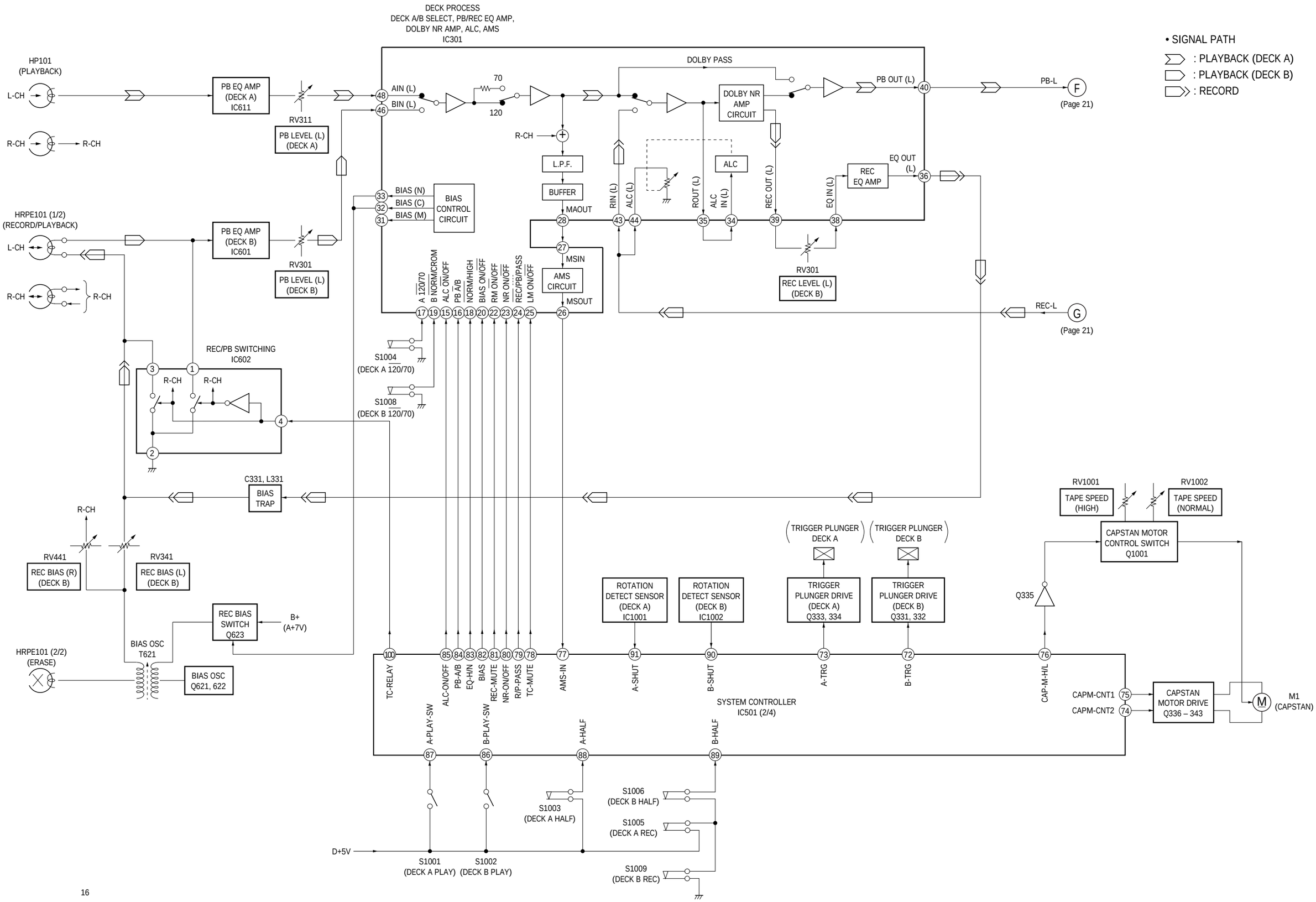
7-1. BLOCK DIAGRAM
CD SERVO SECTION



AUDIO/VIDEO CD SECTION

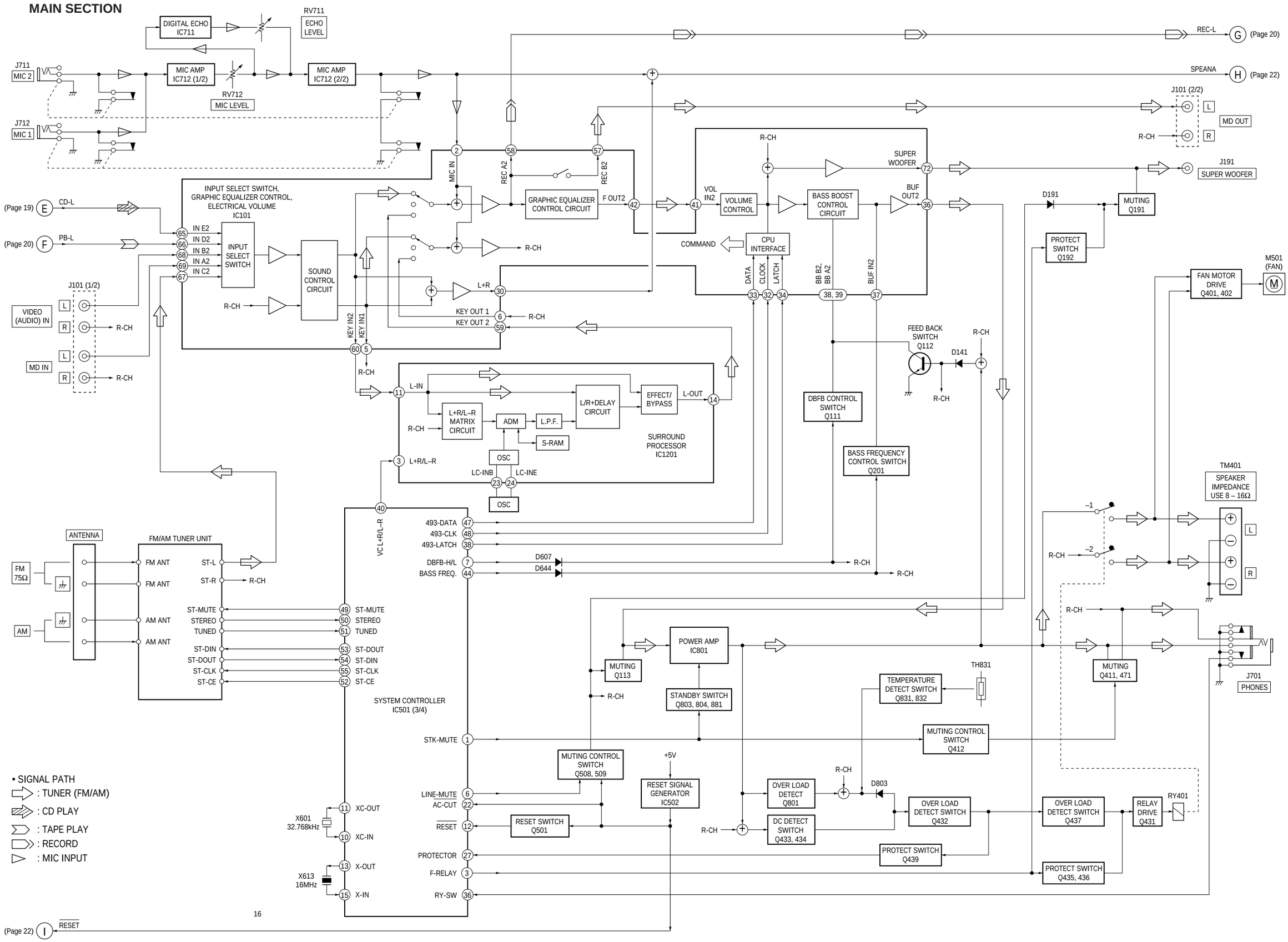


TAPE DECK SECTION

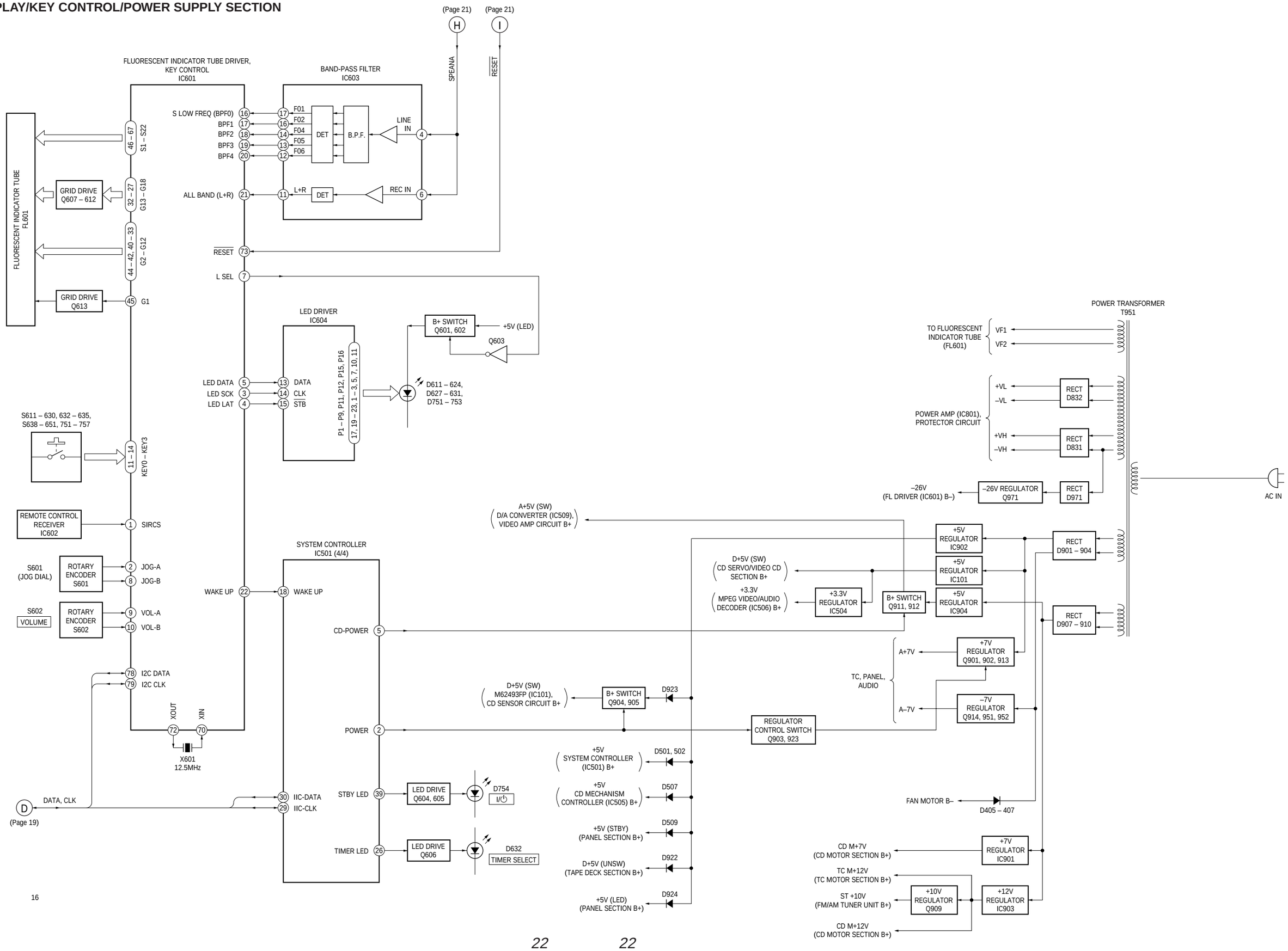


• SIGNAL PATH
: PLAYBACK (DECK A)
: PLAYBACK (DECK B)
: RECORD

MAIN SECTION



DISPLAY/KEY CONTROL/POWER SUPPLY SECTION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

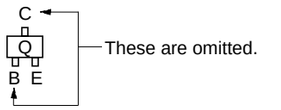
Note on Printed Wiring Board:

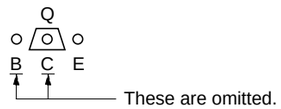
- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.

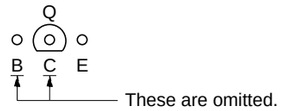
(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.







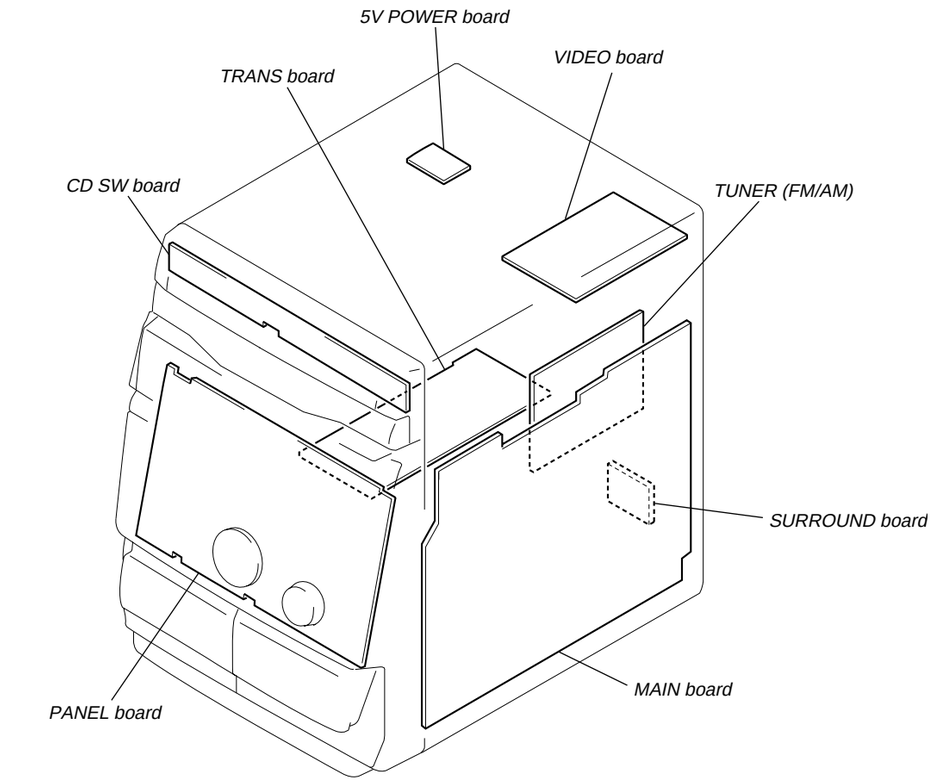
Note on Schematic Diagram:

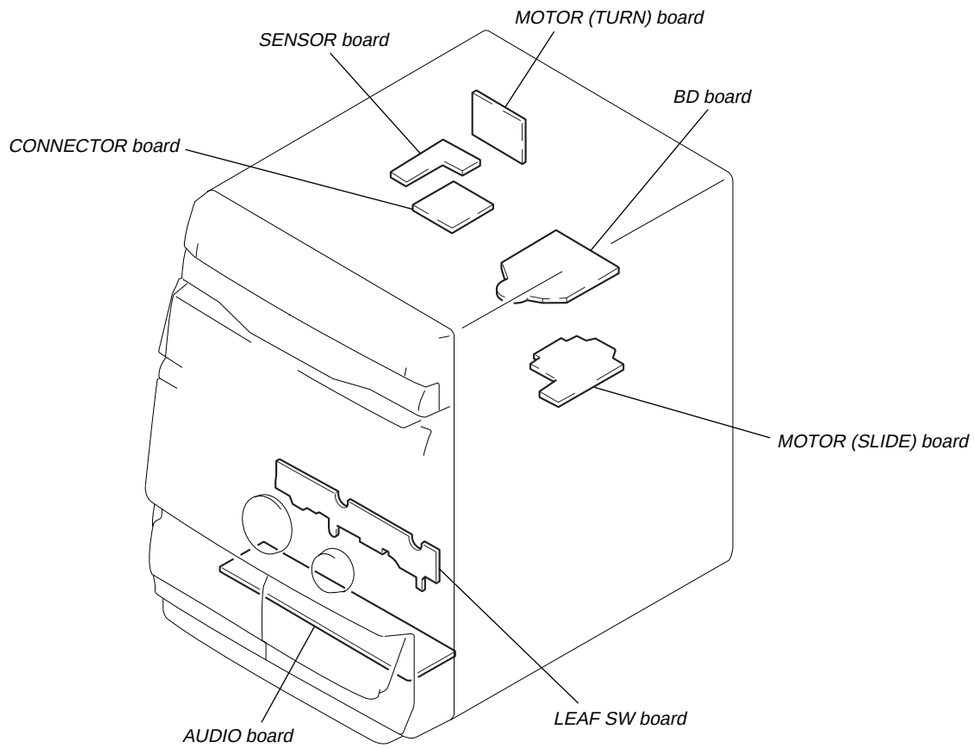
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER (FM/AM)
  - : PLAYBACK (DECK A)
  - : PLAYBACK (DECK B)
  - : RECORD
  - : CD PLAY (VIDEO)
  - : CD PLAY (AUDIO)
  - : DIGITAL OUT
  - : MIC INPUT

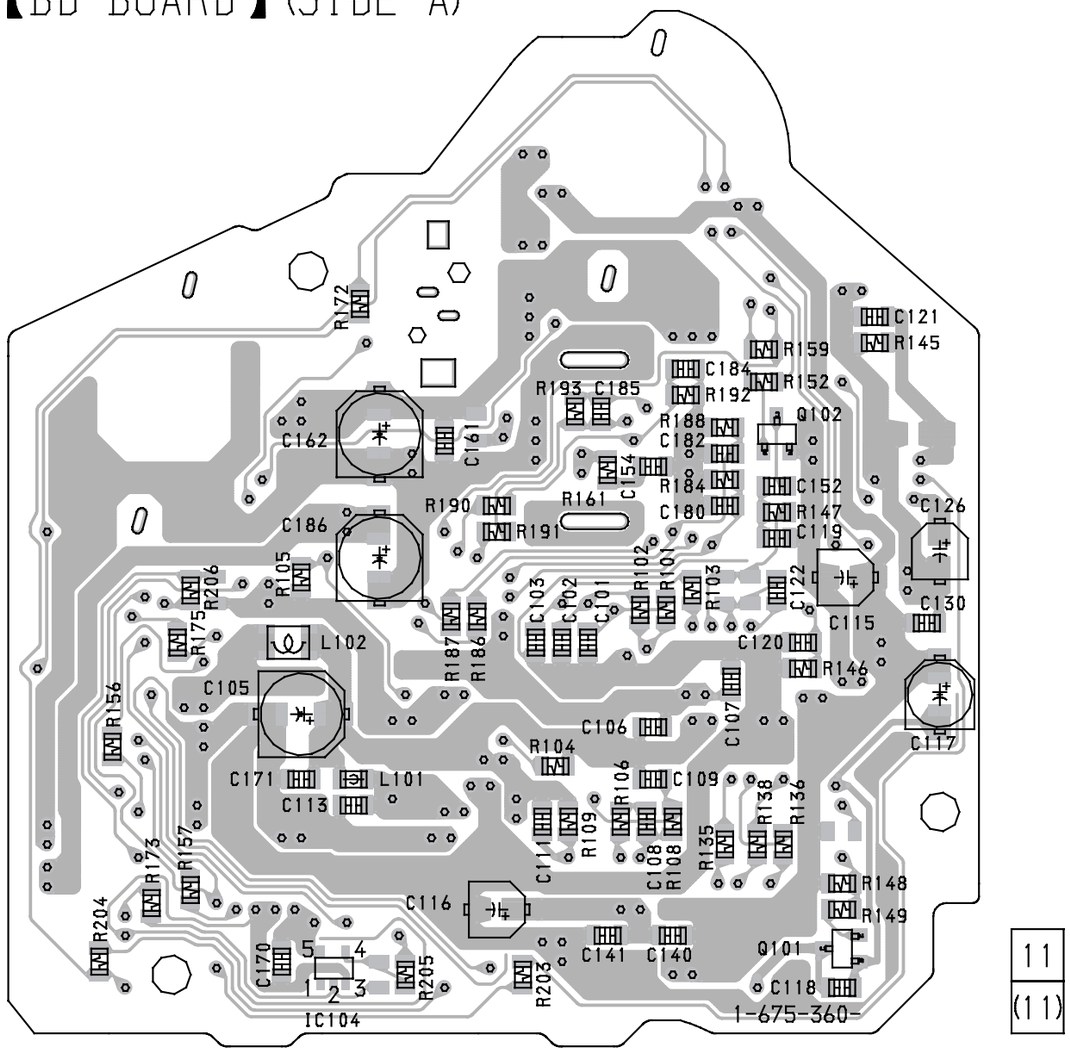
7-2. CIRCUIT BOARD LOCATION



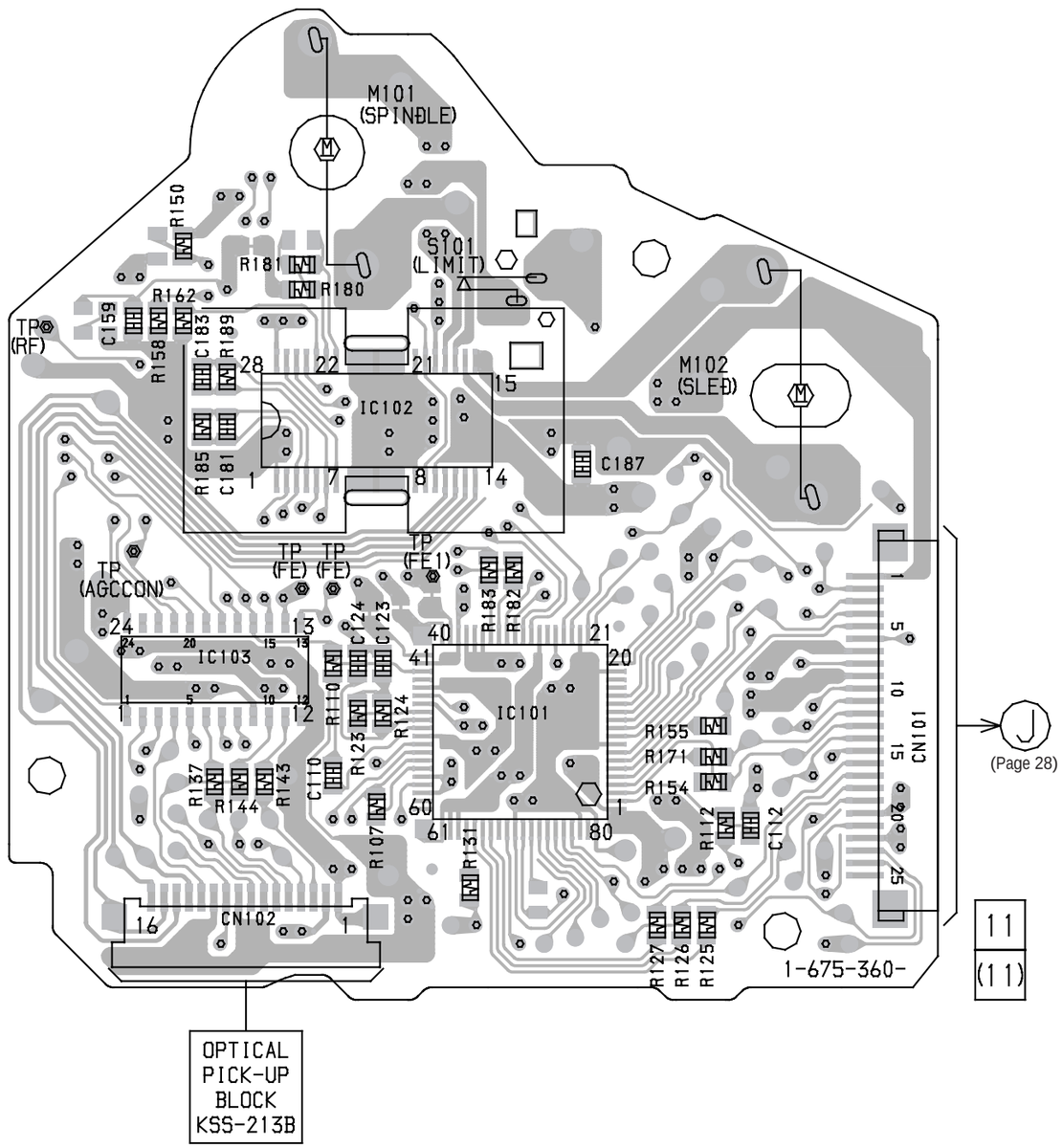


7-3. PRINTED WIRING BOARD BD BOARD • Refer to page 23 for Circuit Boards Location.

【BD BOARD】(SIDE A)

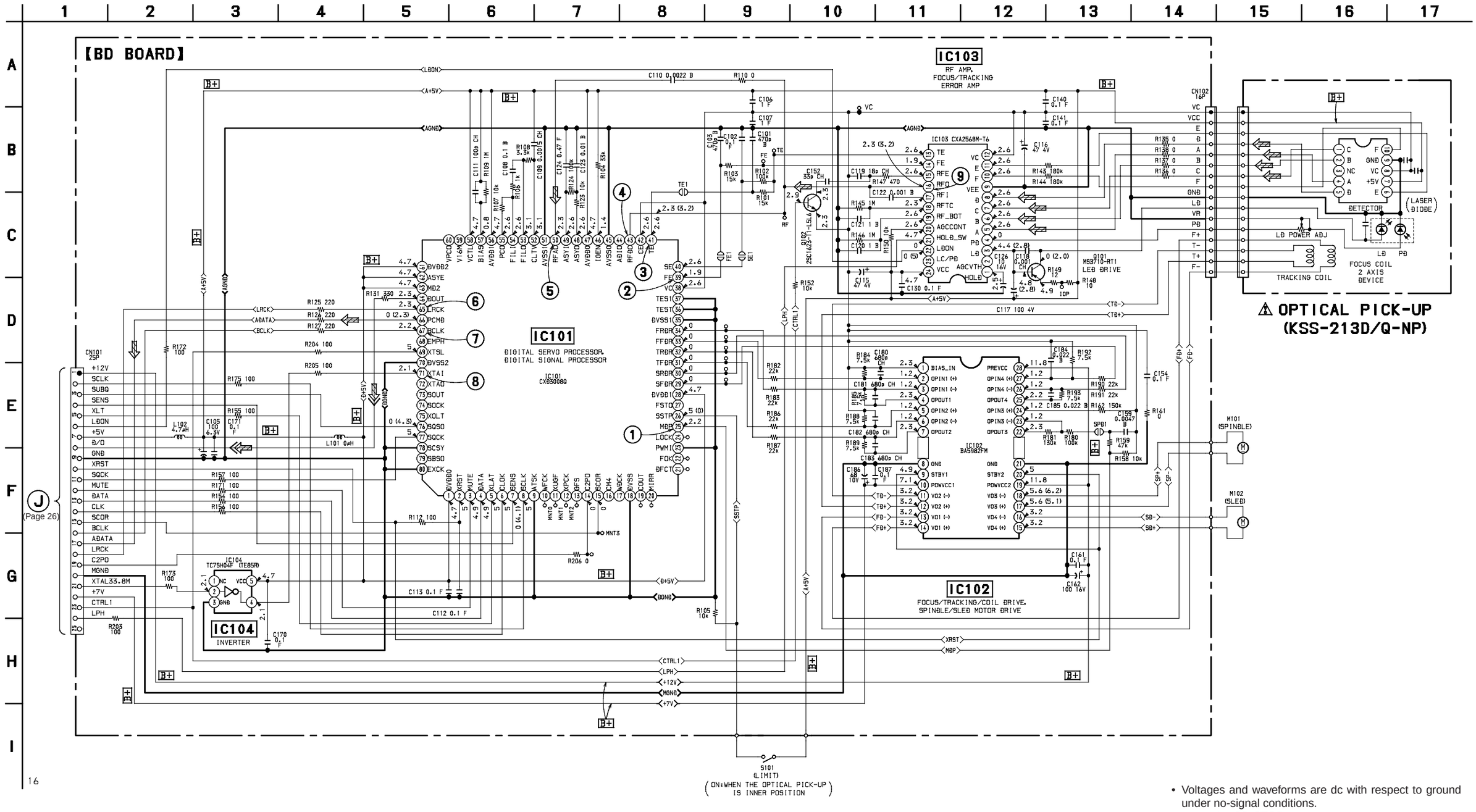


【BD BOARD】(SIDE B)



7-4. SCHEMATIC DIAGRAM BD BOARD

• Refer to page 29 for Waveforms. • Refer to page 45, 46 for IC Block Diagrams.

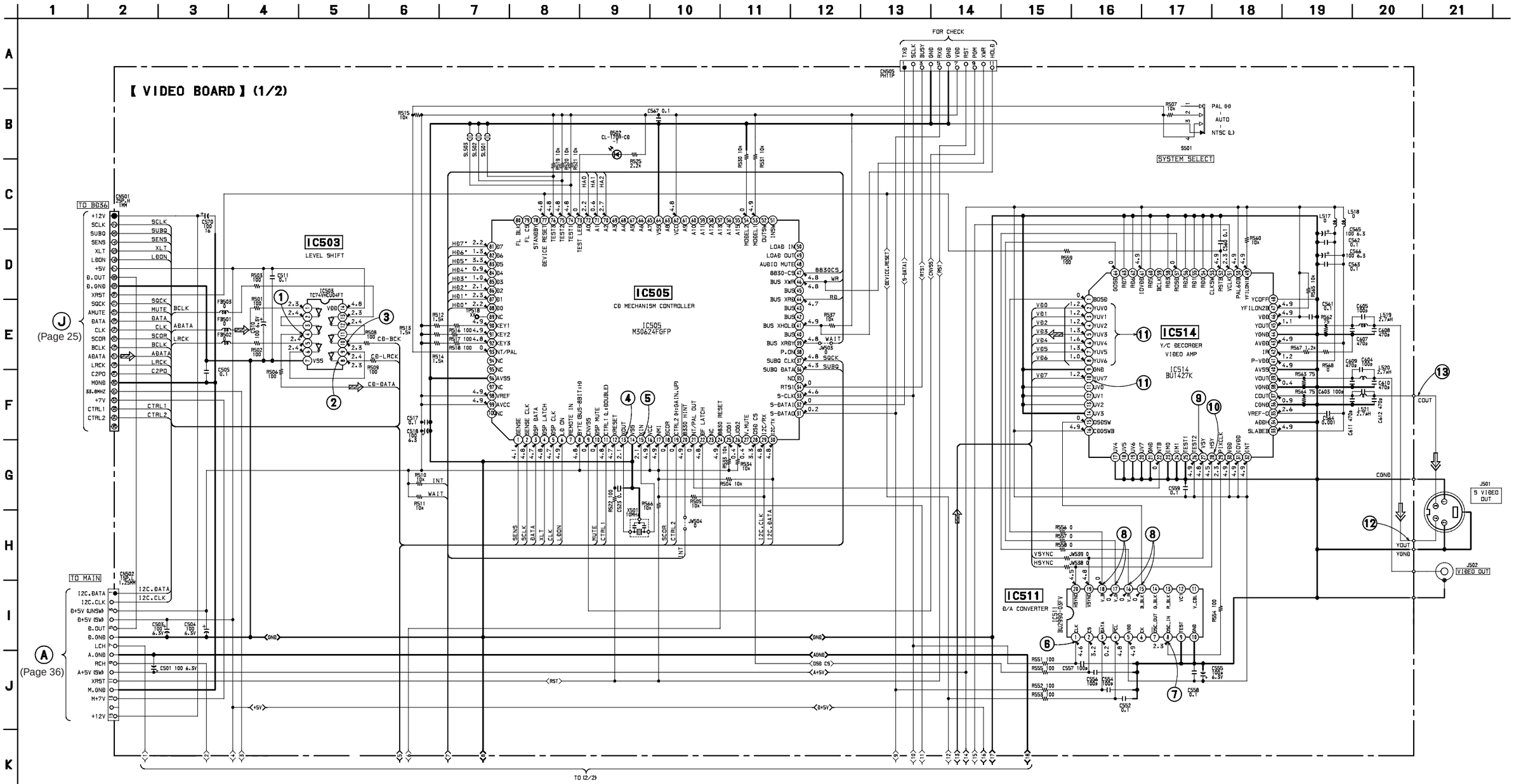


- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD STOP
  ( ) : CD PLAY

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

7-5. SCHEMATIC DIAGRAM VIDEO (1/2) BOARD

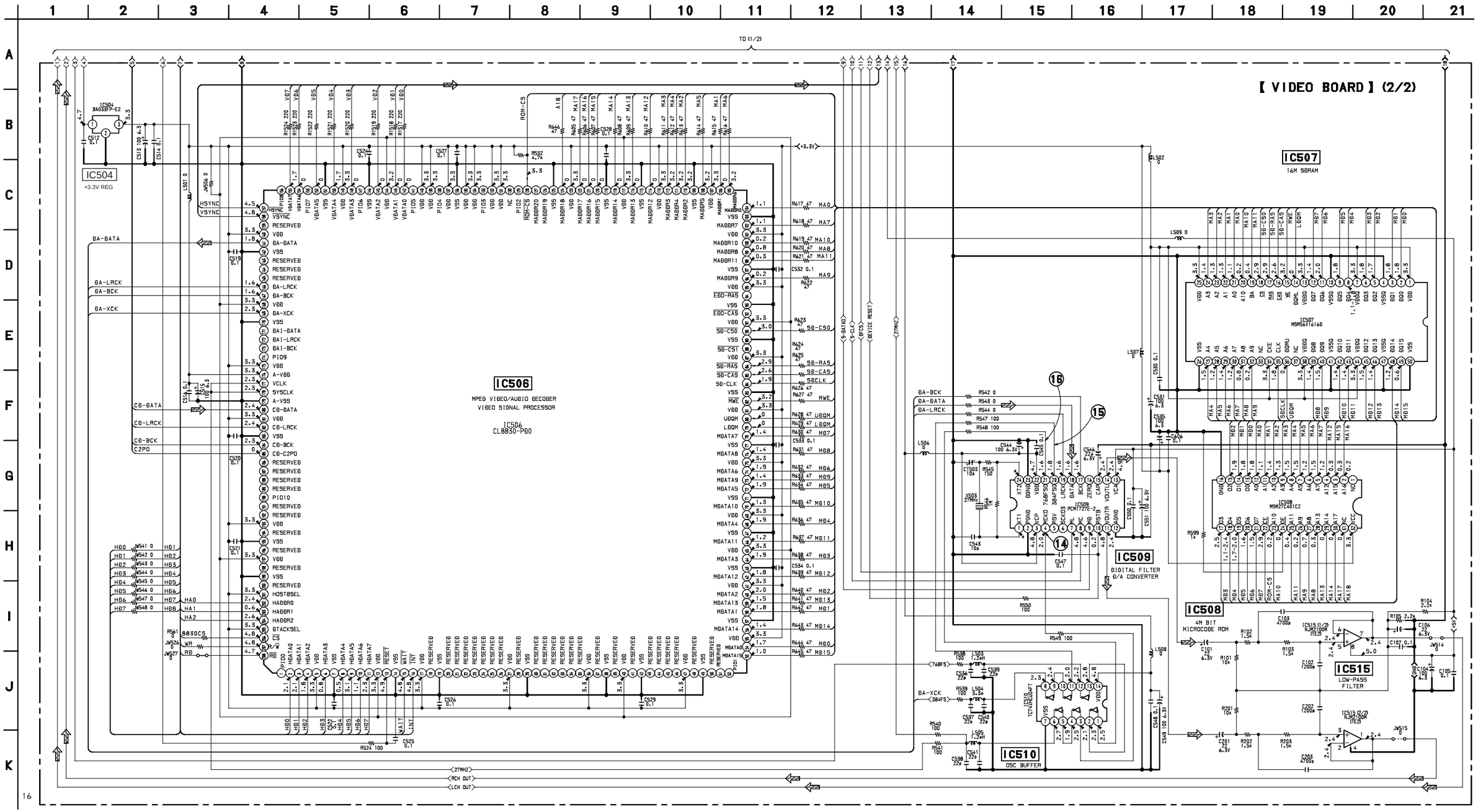
• Refer to page 29 for Waveforms. • Refer to page 52 for IC Pin Function Description. • Refer to page 28 for Printed Wiring Board.



- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : VIDEO CD PLAY

7-6. SCHEMATIC DIAGRAM VIDEO (2/2) BOARD

• Refer to page 29 for Waveforms. • Refer to page 54 for IC Pin Function Description. • Refer to page 47 for IC Block Diagram. • Refer to page 28 for Printed Wiring Board.

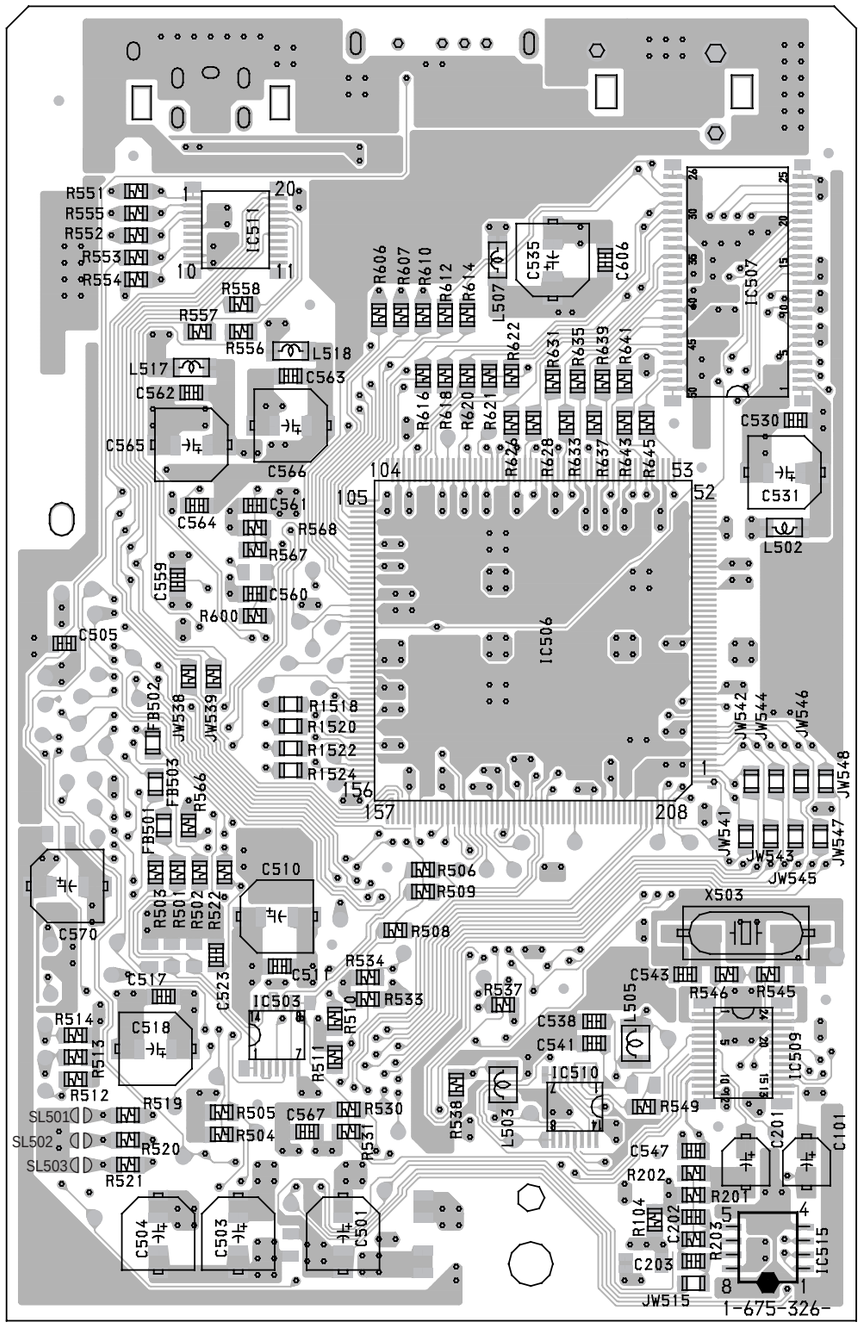


- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark :VIDEO CD PLAY
  ∗ : Impossible to measure

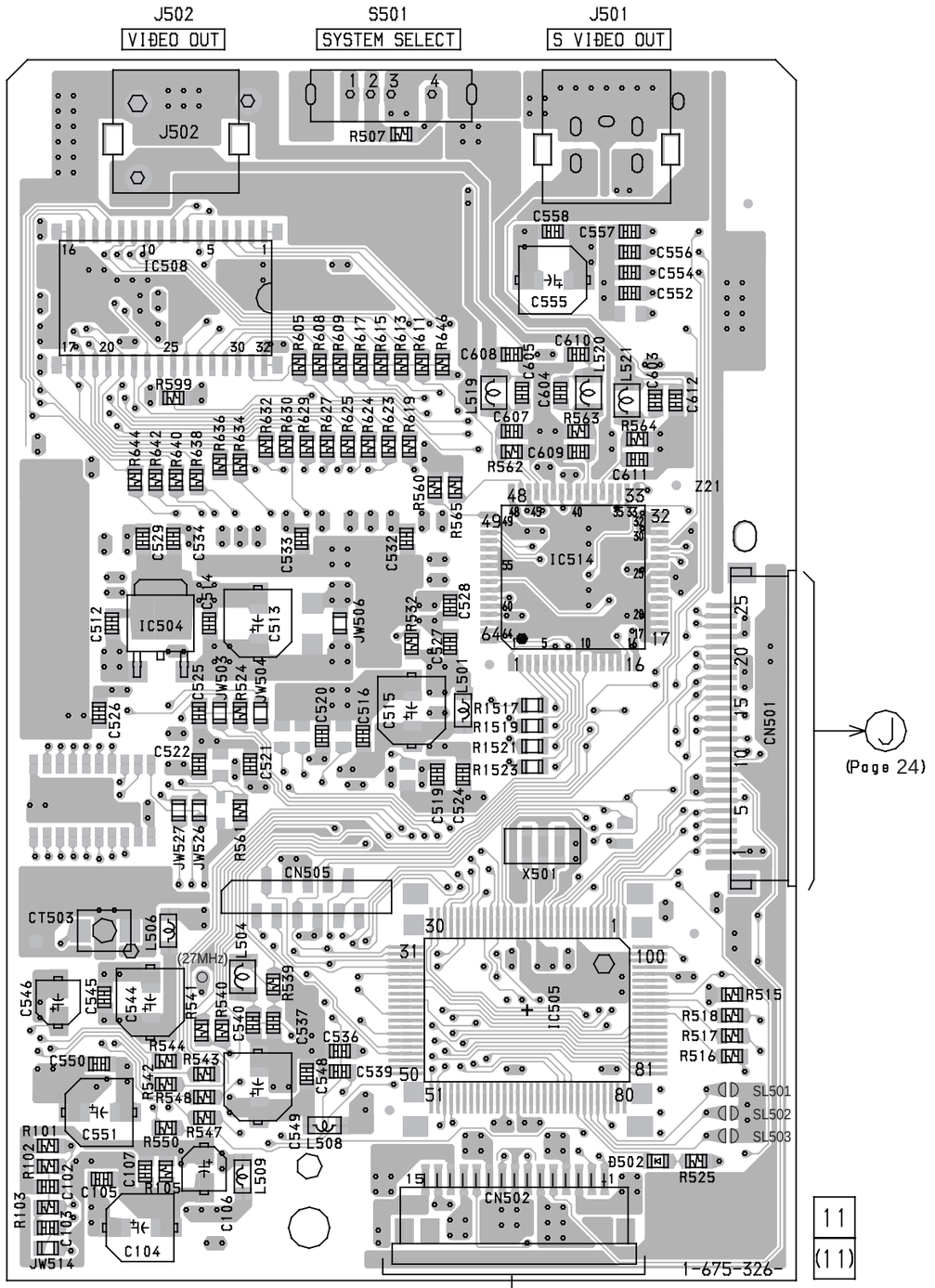
7-7. PRINTED WIRING BOARD VIDEO BOARD

• Refer to page 23 for Circuit Boards Location.

【VIDEO BOARD】 (SIDE A)



【VIDEO BOARD】 (SIDE B)



(J)
(Page 24)
(A)
(Page 35)

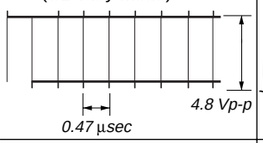
• **Semiconductor Location**

Ref. No.	Location
D502	I-11
IC503	H-3
IC504	E-8
IC505	H-11
IC506	E-4
IC507	C-6
IC508	C-8
IC509	H-6
IC510	H-5
IC511	C-2
IC514	E-11
IC515	I-16

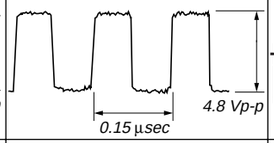
• **Waveforms**

VIDEO SECTION

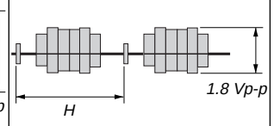
① IC503 ④ (CD-LRCK)
(CD Play mode)



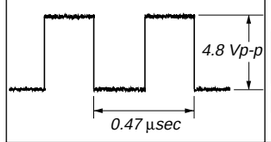
⑦ IC511 ⑧ (OSC IN)



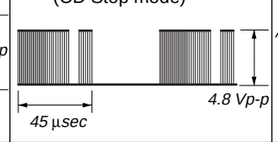
⑬ J301 ③ (COUT)



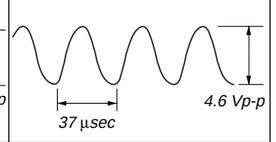
② IC503 ⑧ (CD-LRCK)



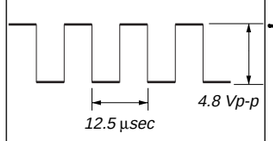
⑧ IC511 ⑮⑯⑰⑱
(CD Stop mode)



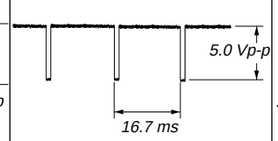
⑭ IC509 ④ (MCKO)



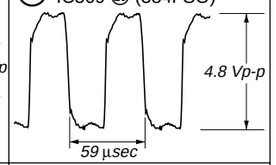
③ IC503 ⑩ (CD-BCK)



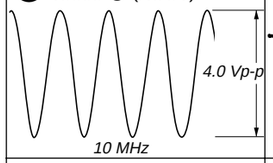
⑨ IC514 ㉗ (VSY)



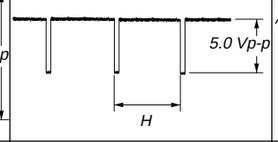
⑮ IC509 ⑳ (384FSO)



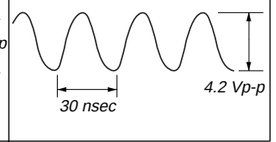
④ IC505 ⑬ (XOUT)



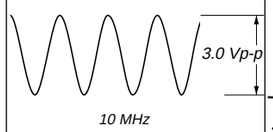
⑩ IC514 ㉘ (HSY)



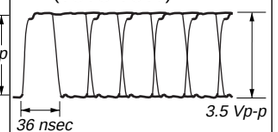
⑯ IC509 ㉑ (768FSO)



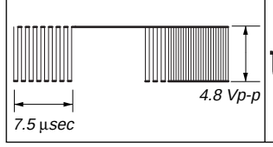
⑤ IC502 ⑮ (XIN)



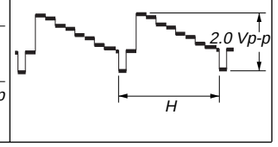
⑪ IC514 ②-⑧,⑩
(YUVO-YUV7)



⑥ IC511 ① (CLK)

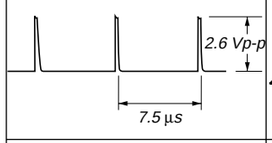


⑫ J301 ④ (YOUT)

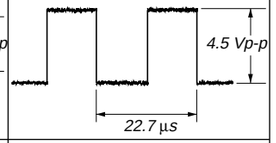


BD SECTION

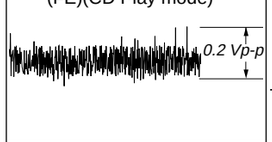
① IC101 ㉕ (MDP)



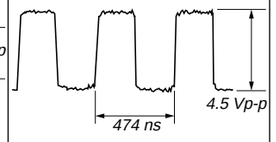
⑥ IC101 ㊺ (LRCK)



② IC101 ㊴
(FE)(CD Play mode)

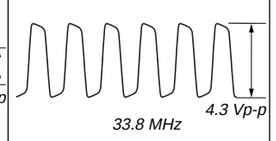


⑦ IC101 ㊼ (BCLK)

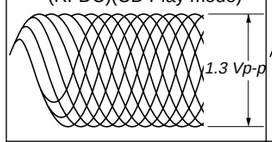


③ IC101 ㊶
(TE)(CD Play mode)

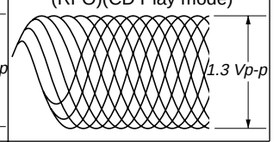
⑧ IC101 ㊶ (XTAI)



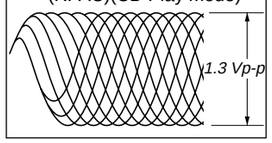
④ IC101 ㊸
(RFDC)(CD Play mode)



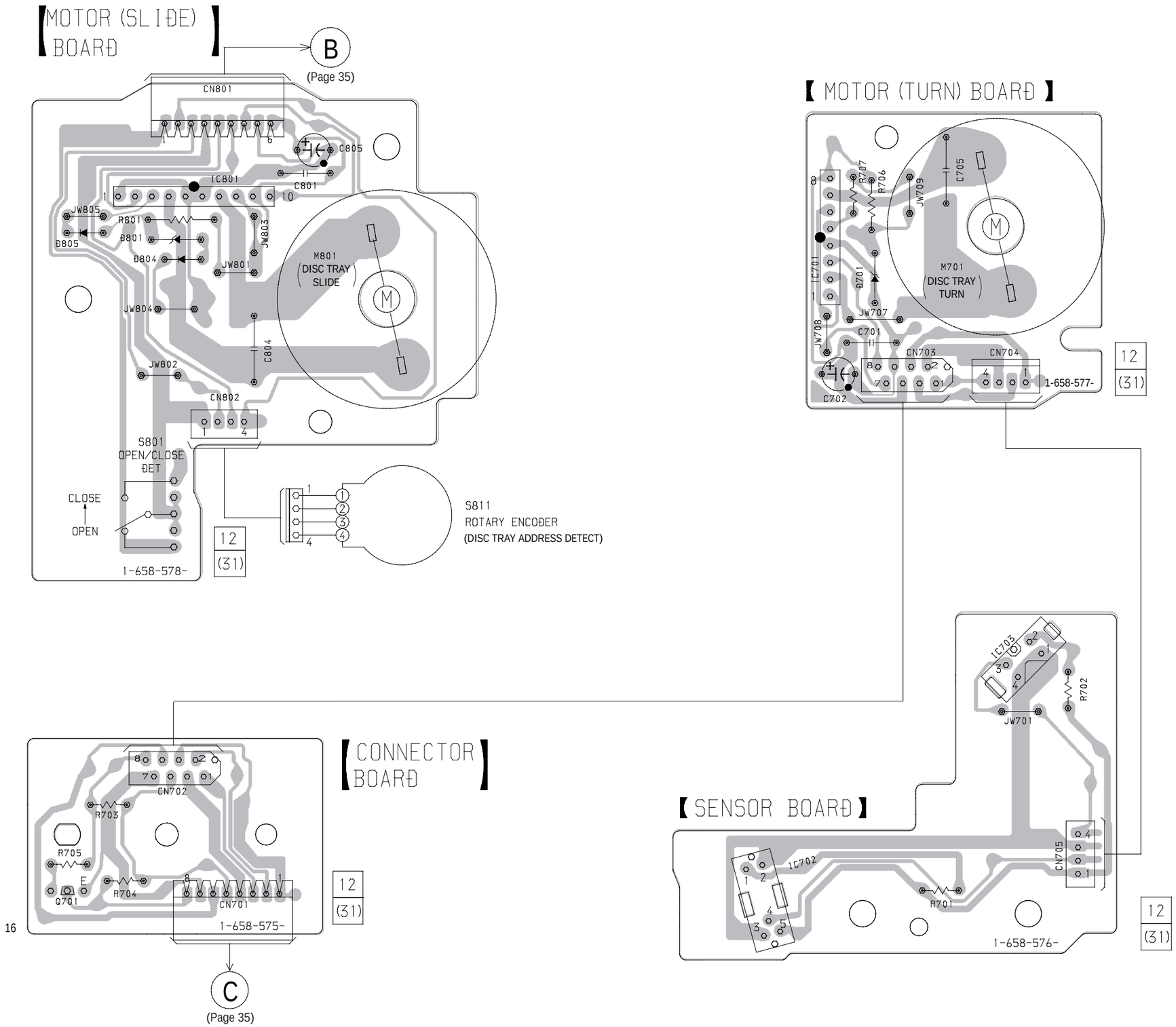
⑨ IC103 ⑯
(RFO)(CD Play mode)



⑤ IC101 ㊿
(RFAC)(CD Play mode)



7-8. PRINTED WIRING BOARDS CD MOTER SECTION • Refer to page 23 for Circuit Boards Location.



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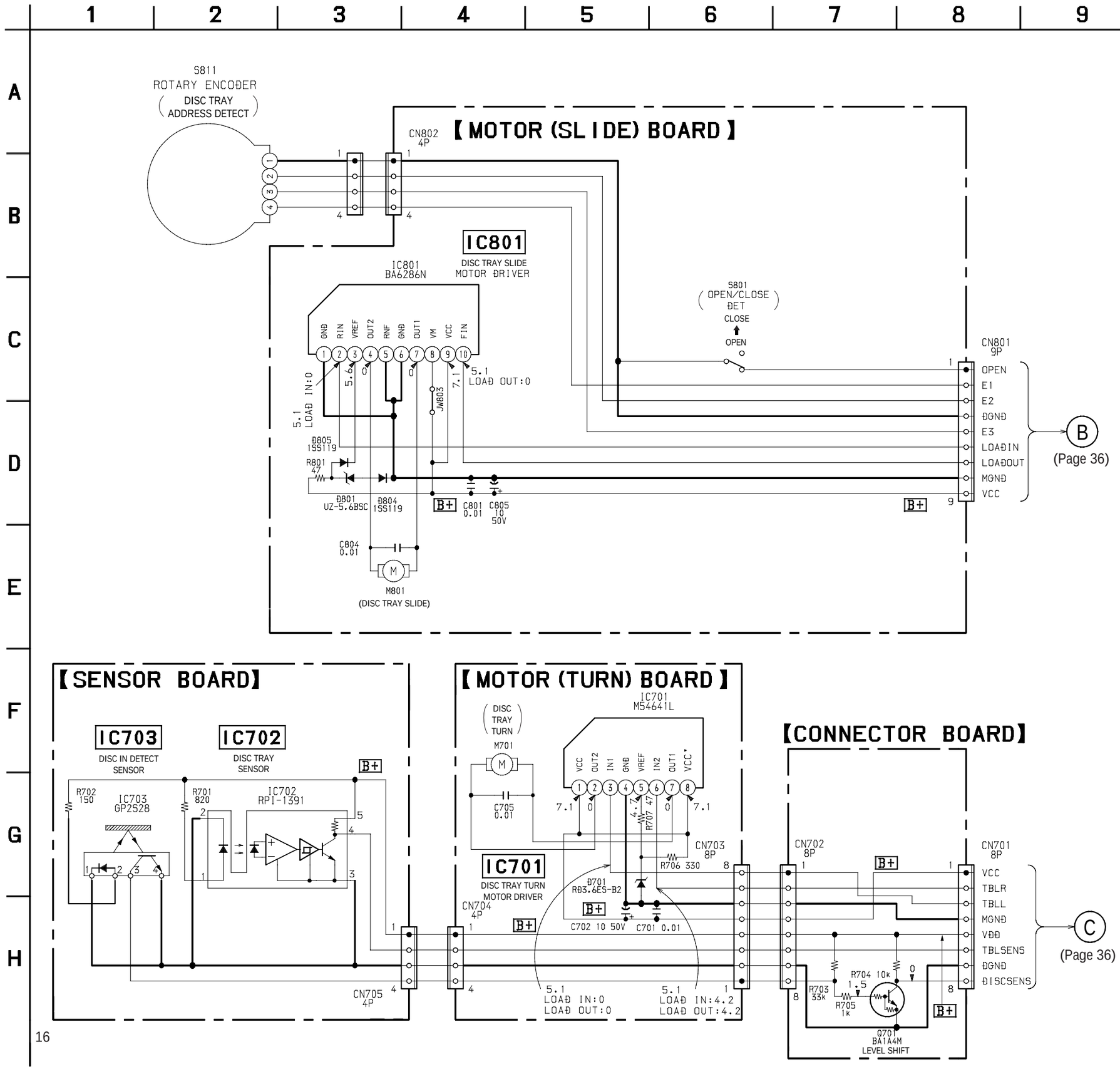
7-9. SCHEMATIC DIAGRAM CD MOTOR SECTION

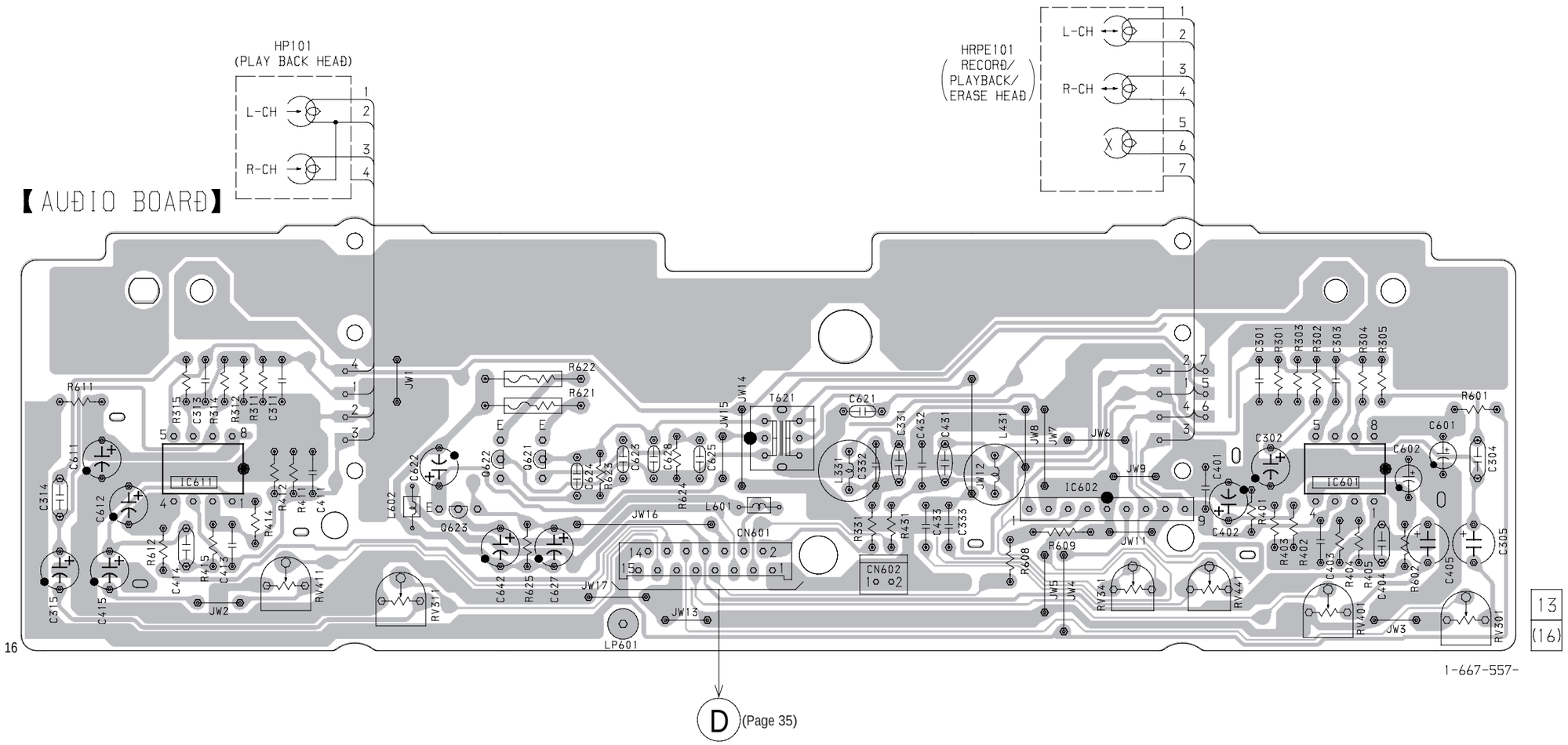
• Refer to page 46 for IC Block Diagrams.



- Voltages are dc with respect to ground under no-signal conditions.
  no mark : CD STOP

7-10. PRINTED WIRING BOARD AUDIO BOARD

• Refer to page 23 for Circuit Boards Location.



7-11. SCHEMATIC DIAGRAM AUDIO BOARD • Refer to page 48 for IC Block Diagram.

【AUDIO BOARD】

A DECK
HP101
(PLAYBACK)

B DECK
HRPE101
(RECORD/PLAYBACK/ERASE)

IC611
PB EQ AMP (DECK A)
IC611 (2/2) μPC4570C-1
IC611 (1/2) μPC4570C-1

IC601
PB EQ AMP (DECK B)
IC601 (2/2) μPC4570C-1
IC601 (1/2) μPC4570C-1

IC602
IC602 μPC1320HA
REC/PB SWITCHING
SW.R1
GND
SW.P1
CONT.
GND
VCC
SW.P2
GND
SW.R2

PB LEVEL (L) (DECK A)
PB LEVEL (R) (DECK A)
PB LEVEL (L) (DECK B)
PB LEVEL (R) (DECK B)
REC BIAS (R) (DECK B)
REC BIAS (L) (DECK B)

Q621, 622
BIAS OSC
Q621 2SC2001
Q622 2SC2001

Q623
REC BIAS SWITCH
Q623 2SB1387

T621
BIAS OSC

CN601 15P
V+ PB
APB LCH
APB RCH
GND PB
BPB LCH
BPB RCH
V- PB
RELAY
BIAS
V- BIAS
V+ BIAS
REC RCH
REC LCH
HEADEARTH

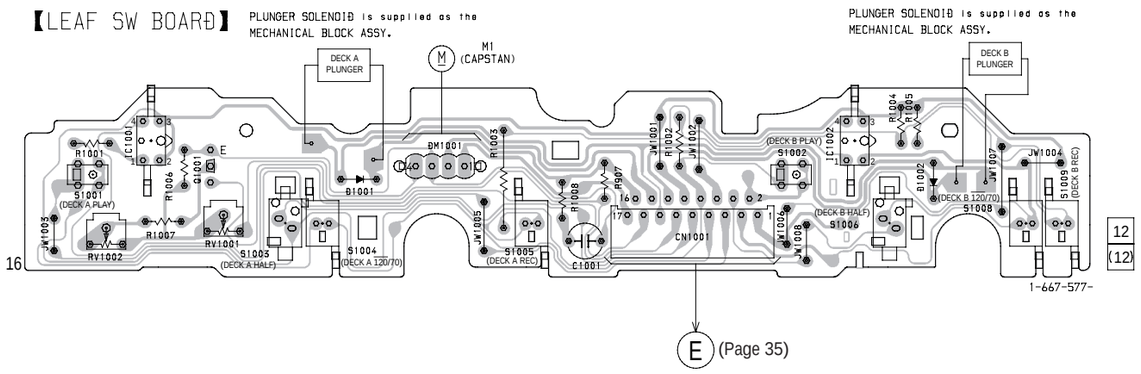
(D) (Page 38)

- Voltages are dc with respect to ground under no-signal conditions.
  no mark : TAPE PLAY
  ( ) : RECORD

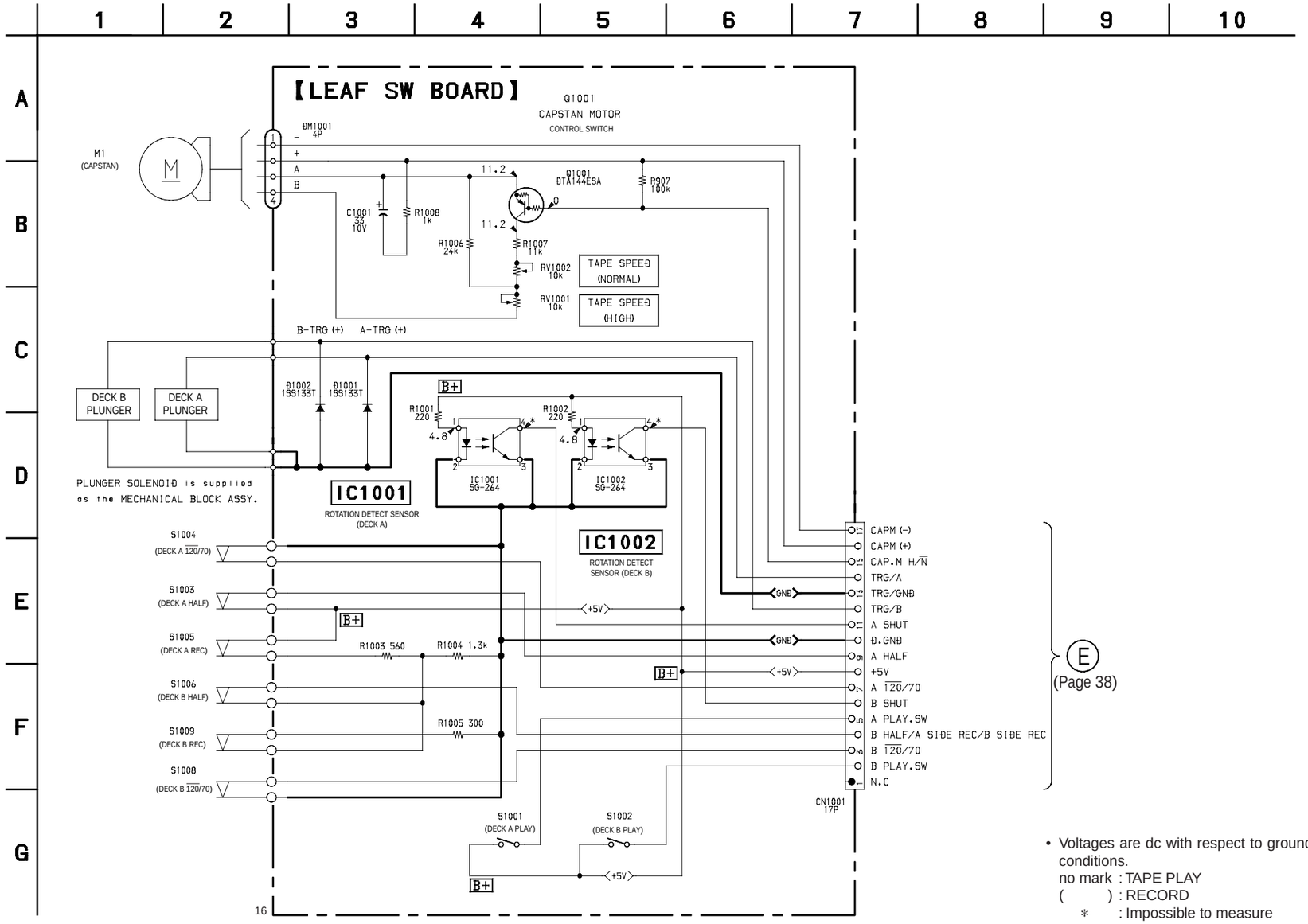
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

7-12. PRINTED WIRING BOARD LEAF SW BOARD

• Refer to page 23 for Circuit Boards Location.



7-13. SCHEMATIC DIAGRAM LEAF SW BOARD



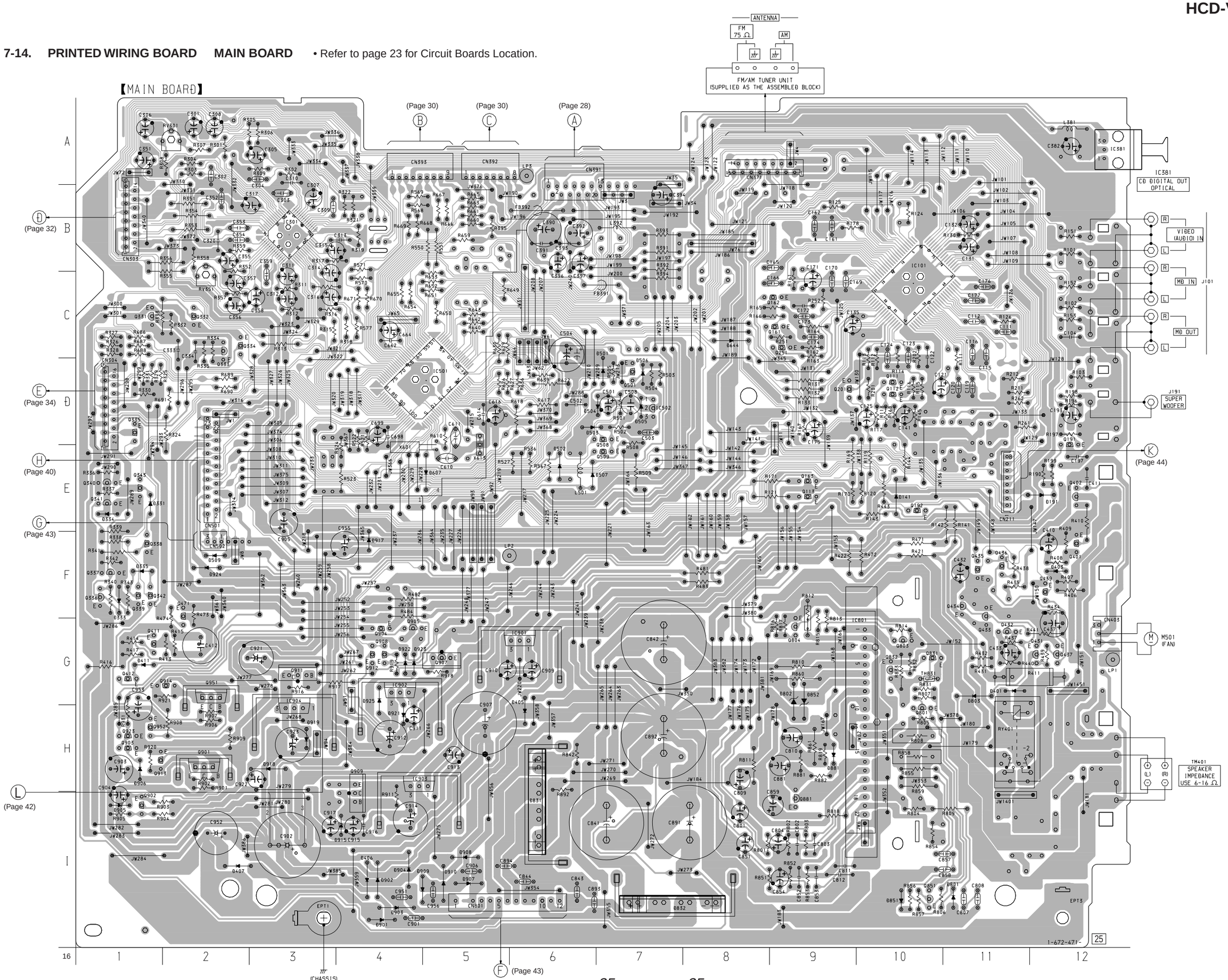
• Voltages are dc with respect to ground under no-signal conditions.
no mark : TAPE PLAY
( ) : RECORD
∗ : Impossible to measure

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D141	E-10	Q111	D-10
D191	D-12	Q112	D-10
D331	E-1	Q113	E-9
D333	F-1	Q161	C-9
D334	E-1	Q162	C-9
D335	F-1	Q163	E-9
D401	G-11	Q191	D-12
D403	F-12	Q192	E-10
D405	H-6	Q201	D-9
D406	I-4	Q251	C-9
D407	I-2	Q331	C-1
D411	G-1	Q332	C-2
D501	D-7	Q333	C-2
D502	E-6	Q334	C-2
D503	D-6	Q335	D-1
D504	D-7	Q336	F-1
D505	D-7	Q337	F-1
D506	D-7	Q338	F-1
D507	E-6	Q339	F-1
D509	F-2	Q340	E-1
D607	E-5	Q341	E-1
D644	C-8	Q342	F-1
D801	I-11	Q343	E-1
D802	G-9	Q401	F-12
D803	G-11	Q402	E-12
D831	I-6	Q411	G-1
D832	I-7	Q412	G-1
D851	I-10	Q431	G-12
D852	G-9	Q432	G-11
D881	H-9	Q433	F-11
D901	I-4	Q434	F-11
D902	I-4	Q435	F-11
D903	I-4	Q436	F-11
D904	I-4	Q437	G-12
D905	I-1	Q439	F-12
D906	H-1	Q471	F-2
D907	I-5	Q501	D-7
D908	I-5	Q508	D-7
D909	I-5	Q509	E-7
D910	I-5	Q801	H-10
D915	I-4	Q803	G-10
D917	F-4	Q804	G-9
D919	H-3	Q831	G-10
D921	H-4	Q832	G-10
D922	G-4	Q851	I-10
D923	G-4	Q881	I-9
D924	F-2	Q901	H-2
		Q902	I-1
IC101	C-10	Q903	H-1
IC301	B-3	Q904	G-4
IC381	A-12	Q905	G-4
IC501	D-5	Q909	I-4
IC502	D-7	Q911	G-3
IC801	H-10	Q912	G-4
IC901	G-6	Q913	H-1
IC902	G-4	Q914	G-2
IC903	H-4	Q923	H-1
IC904	H-3	Q951	G-2
		Q952	H-1

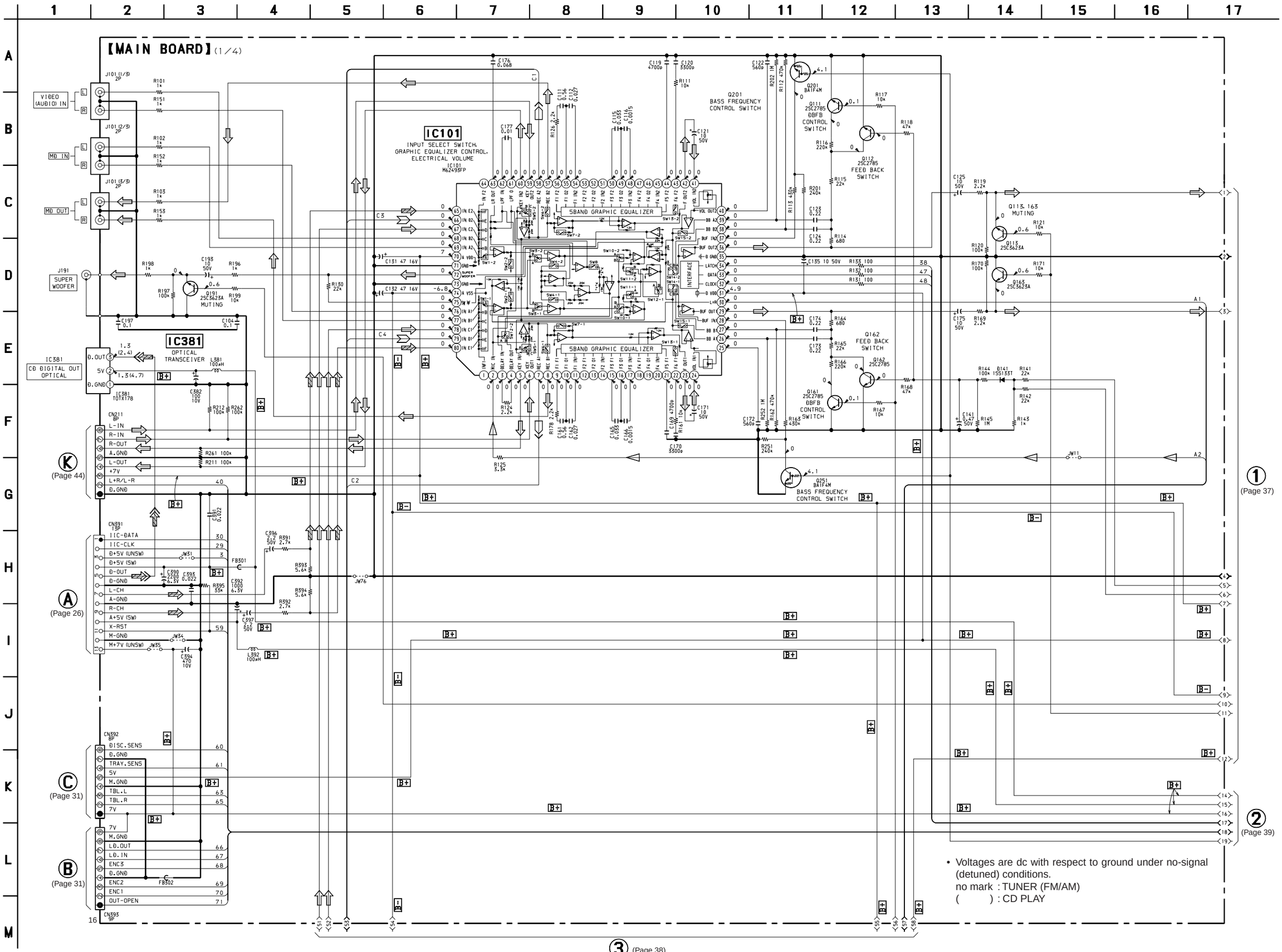
7-14. PRINTED WIRING BOARD MAIN BOARD

• Refer to page 23 for Circuit Boards Location.



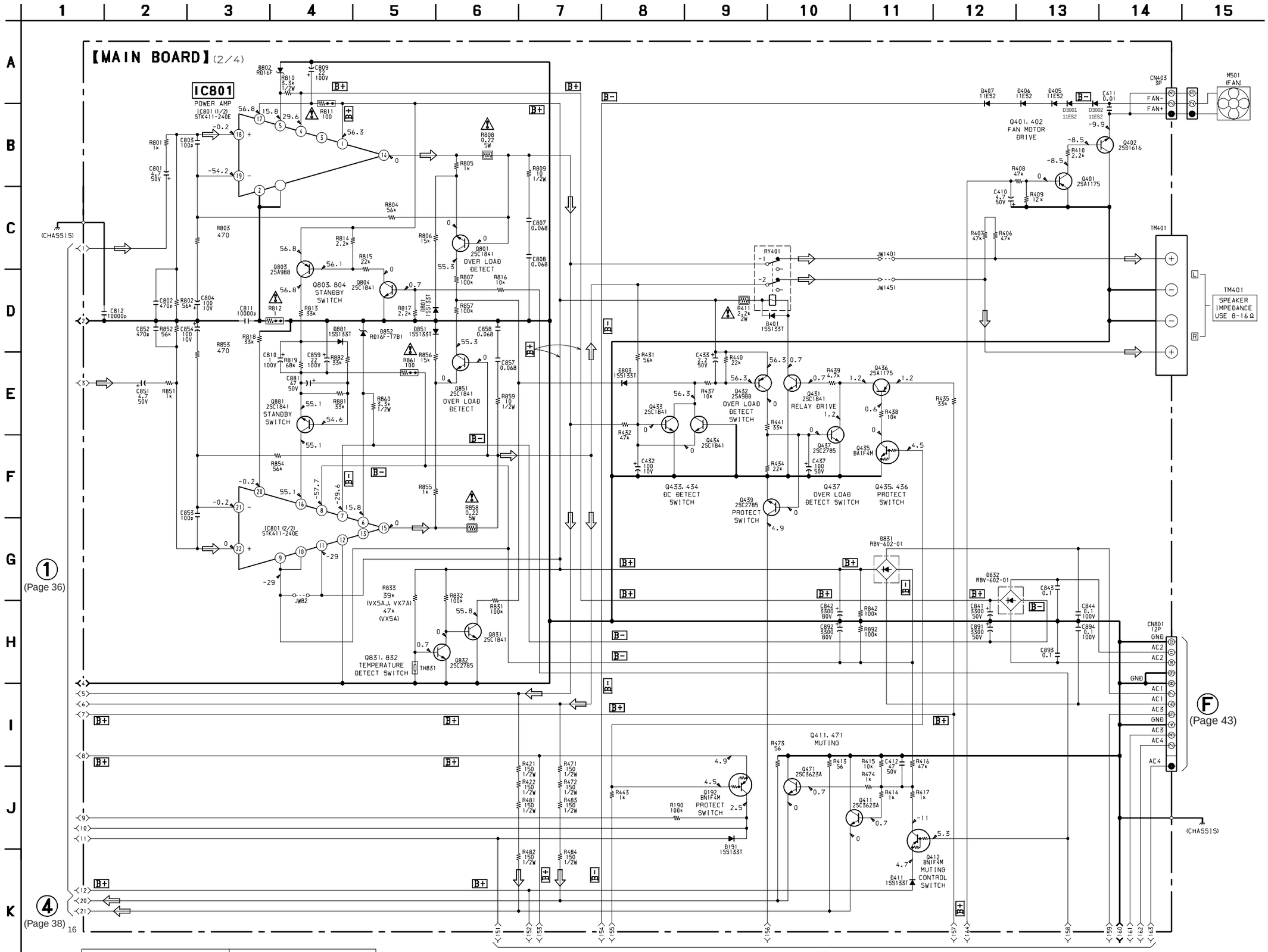
7-15. SCHEMATIC DIAGRAM MAIN (1/4) BOARD

• Refer to page 35 for Printed Wiring Board.



7-16. SCHEMATIC DIAGRAM MAIN (2/4) BOARD

• Refer to page 35 for Printed Wiring Board.

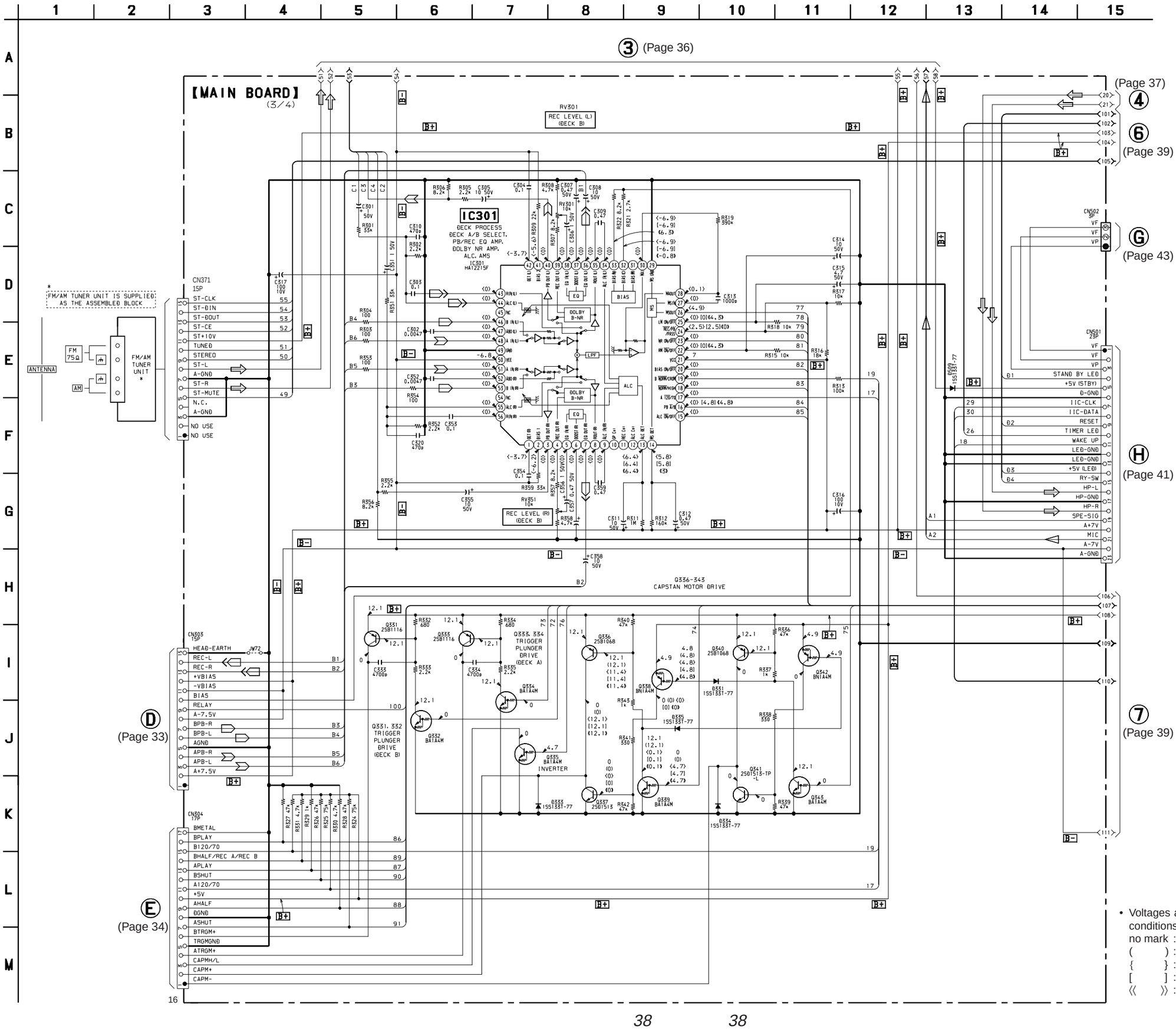


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER (FM/AM)

7-17. SCHEMATIC DIAGRAM MAIN (3/4) BOARD

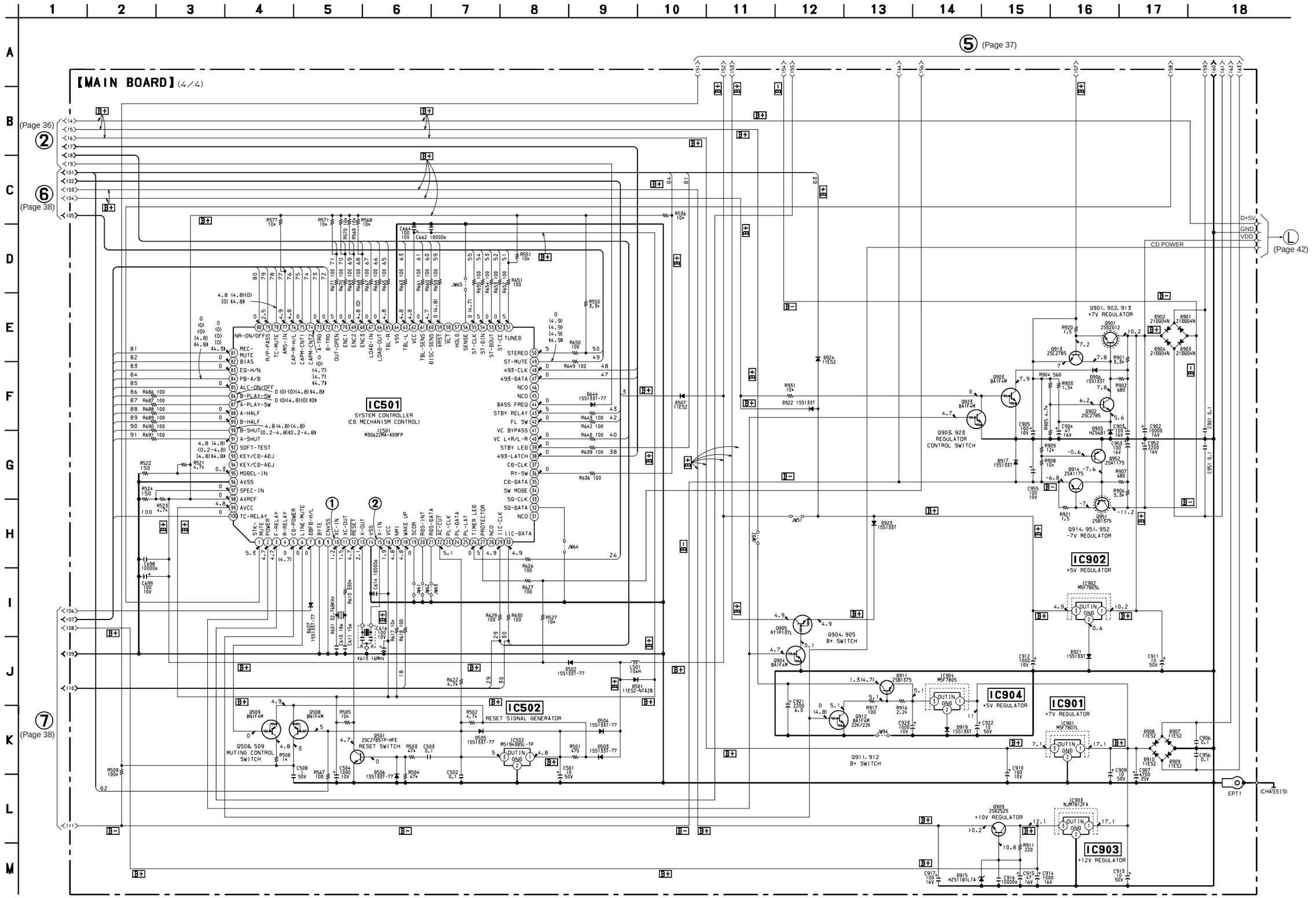
• Refer to page 35 for Printed Wiring Board.



- Voltages are dc with respect to ground under no-signal conditions.
  no mark : TUNER (FM/AM)
  ( ) : CD PLAY
  { } : PLAYBACK (DECK A)
  [ ] : PLAYBACK (DECK B)
  ⟨⟨ ⟩⟩ : RECORD

7-18. SCHEMATIC DIAGRAM MAIN (4/4) BOARD

• Refer to page 35 for Printed Wiring Board. • Refer to page 49 for IC Pin Function Description.



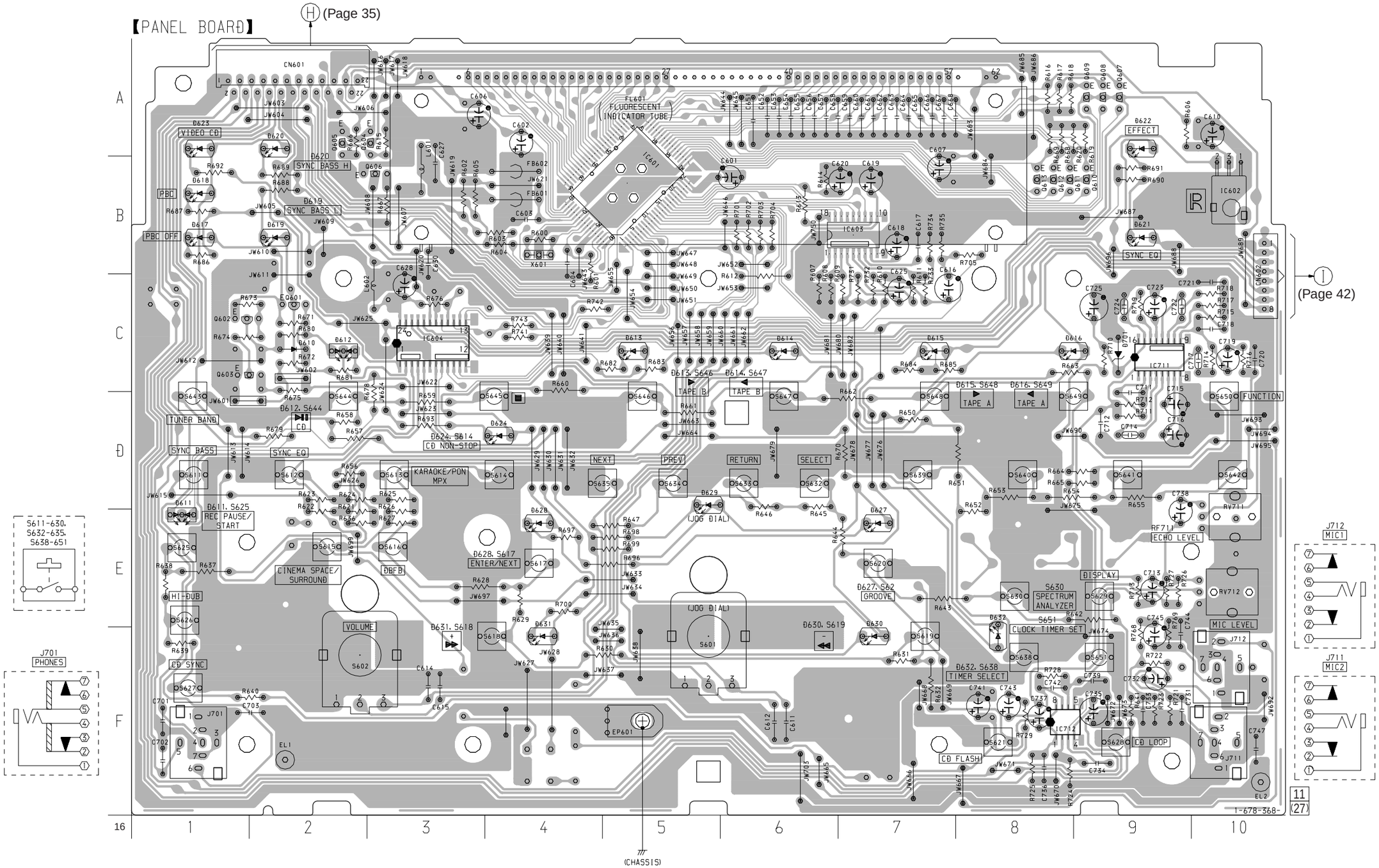
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER (FM/AM)
  ( ) : CD PLAY
  { } : PLAYBACK (DECK A)
  [ ] : PLAYBACK (DECK B)
  ⟨⟨ ⟩⟩ : RECORD

7-19. PRINTED WIRING BOARD PANEL BOARD

• Refer to page 23 for Circuit Boards Location.

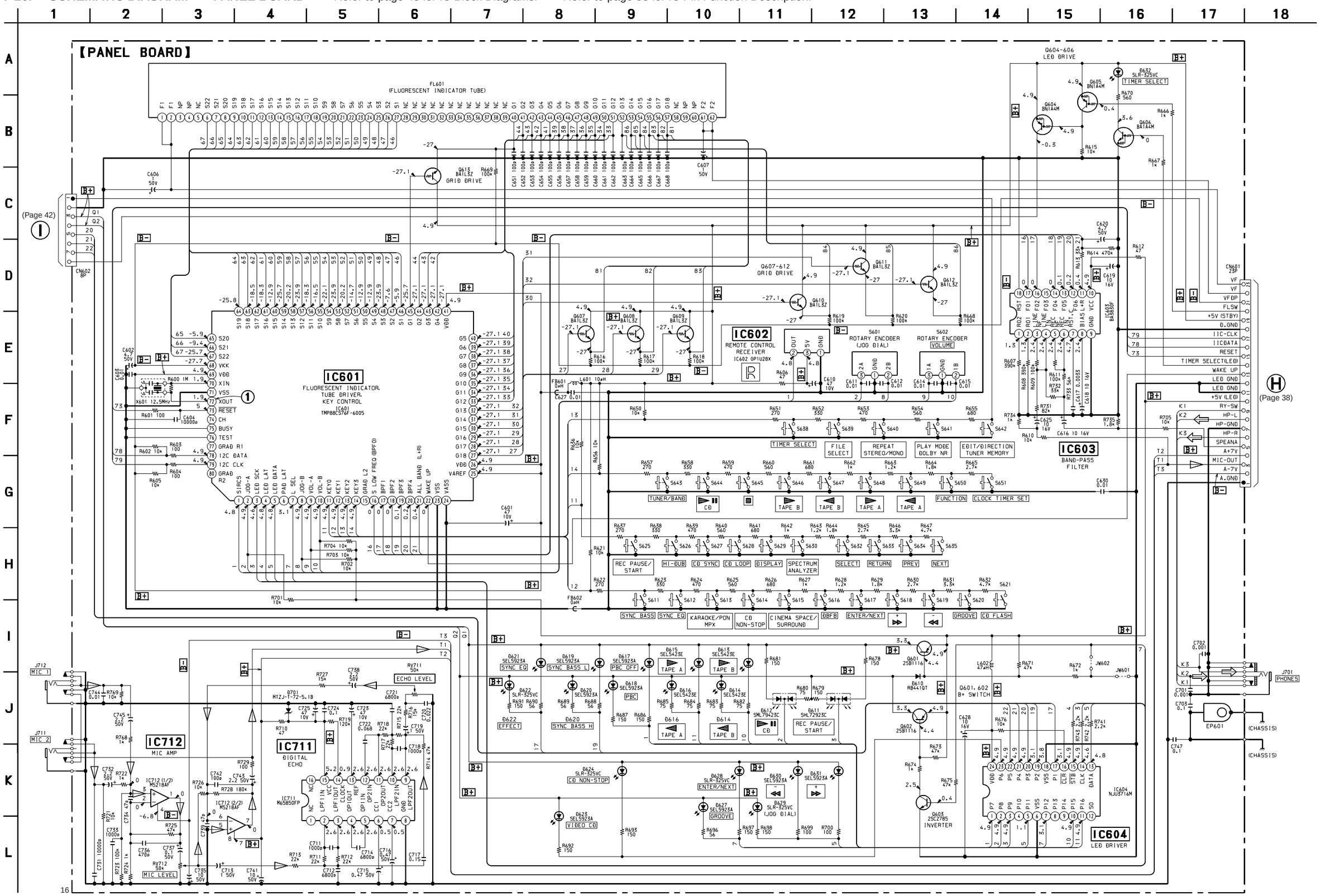
- **Semiconductor Location**

Ref. No.	Location
D610	C-2
D611	E-1
D612	C-2
D613	C-5
D614	C-6
D615	C-7
D616	C-8
D617	B-1
D618	B-1
D619	B-2
D620	A-2
D621	B-9
D622	A-9
D623	A-1
D624	D-4
D627	E-7
D628	E-4
D629	D-5
D630	F-7
D631	F-4
D632	F-8
D701	C-9
IC601	B-5
IC602	B-10
IC603	B-7
IC604	C-3
IC711	C-9
IC712	F-8
Q601	C-2
Q602	C-1
Q603	C-1
Q604	A-3
Q605	A-2
Q606	B-3
Q607	A-9
Q608	A-9
Q609	A-9
Q610	B-9
Q611	B-8
Q612	B-8
Q613	B-8



7-20. SCHEMATIC DIAGRAM PANEL BOARD

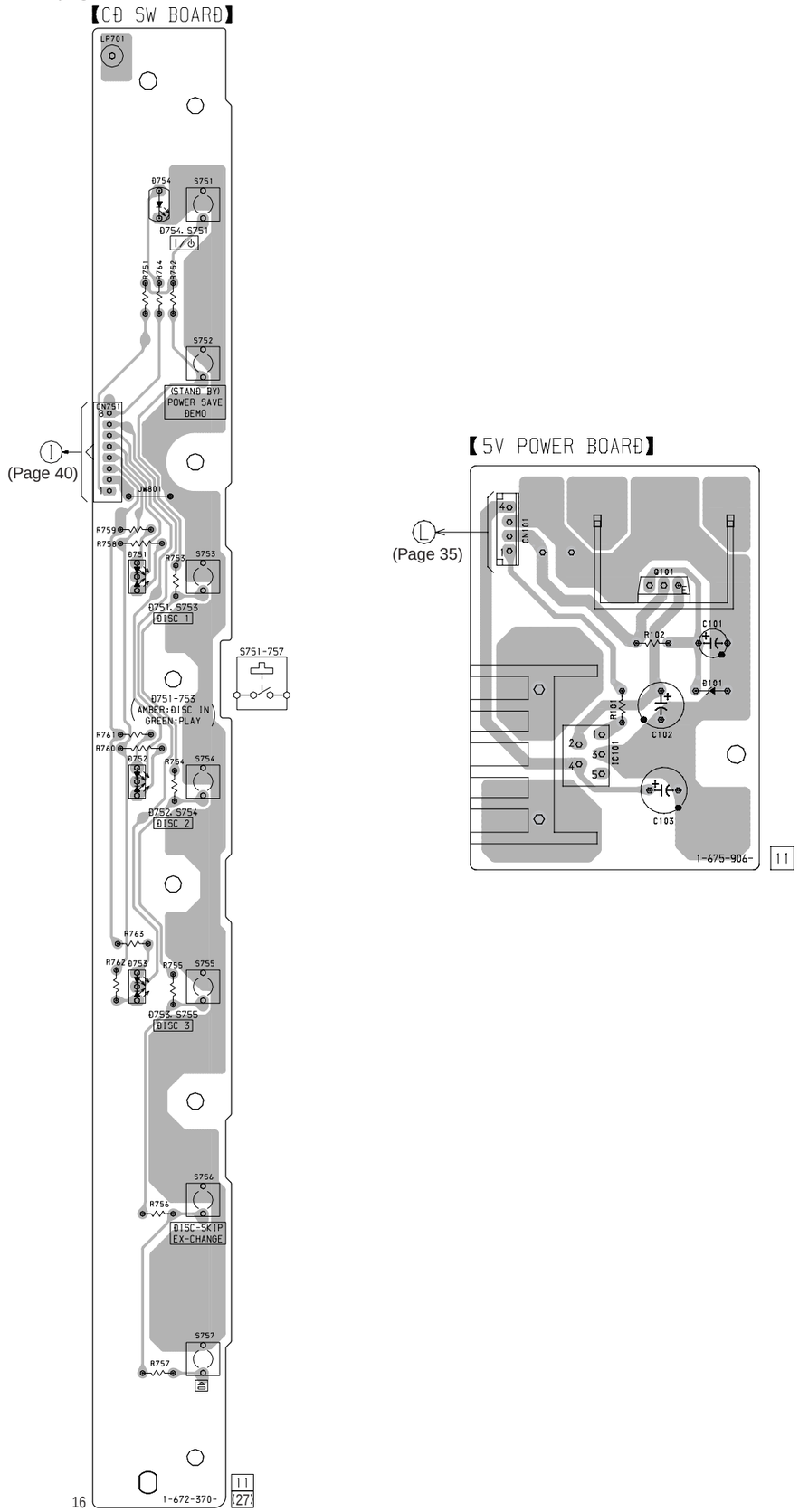
• Refer to page 48 for IC Block Diagrams. • Refer to page 58 for IC Pin Function Description.



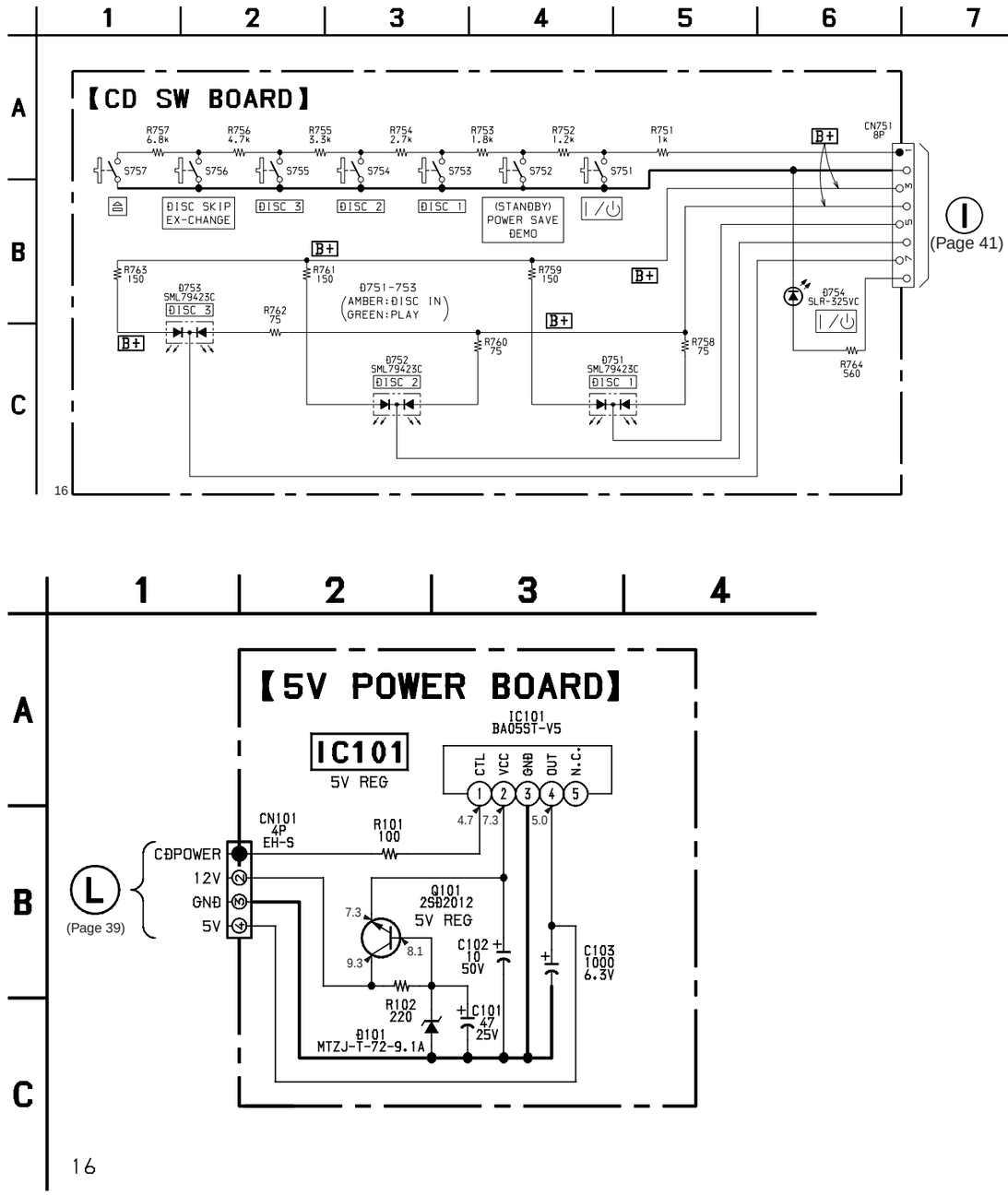
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER (FM/AM)

7-21. PRINTED WIRING BOARD CD SW/5V POWER BOARD

• Refer to page 23 for Circuit Boards Location.

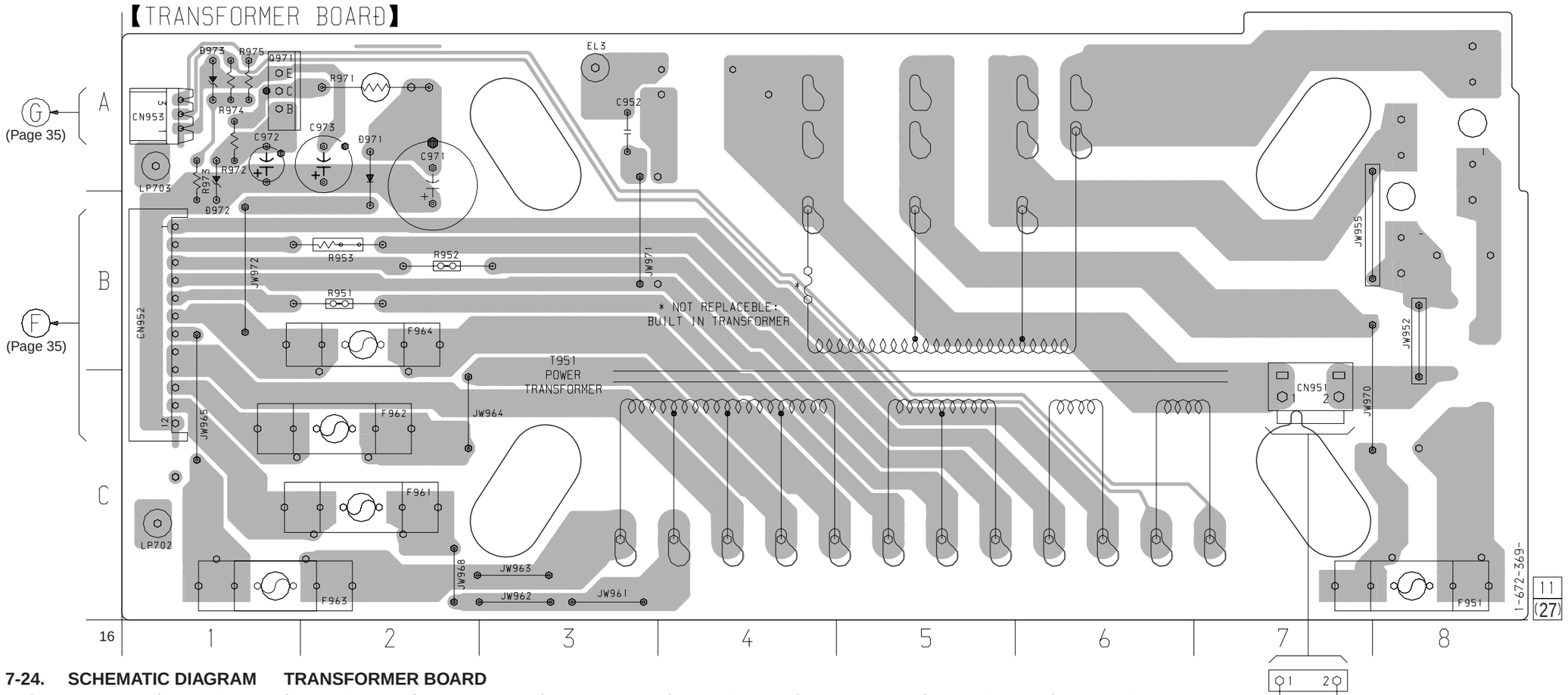


7-22. SCHEMATIC DIAGRAM CD SW/5V POWER BOARD



7-23. PRINTED WIRING BOARD TRANSFORMER BOARD

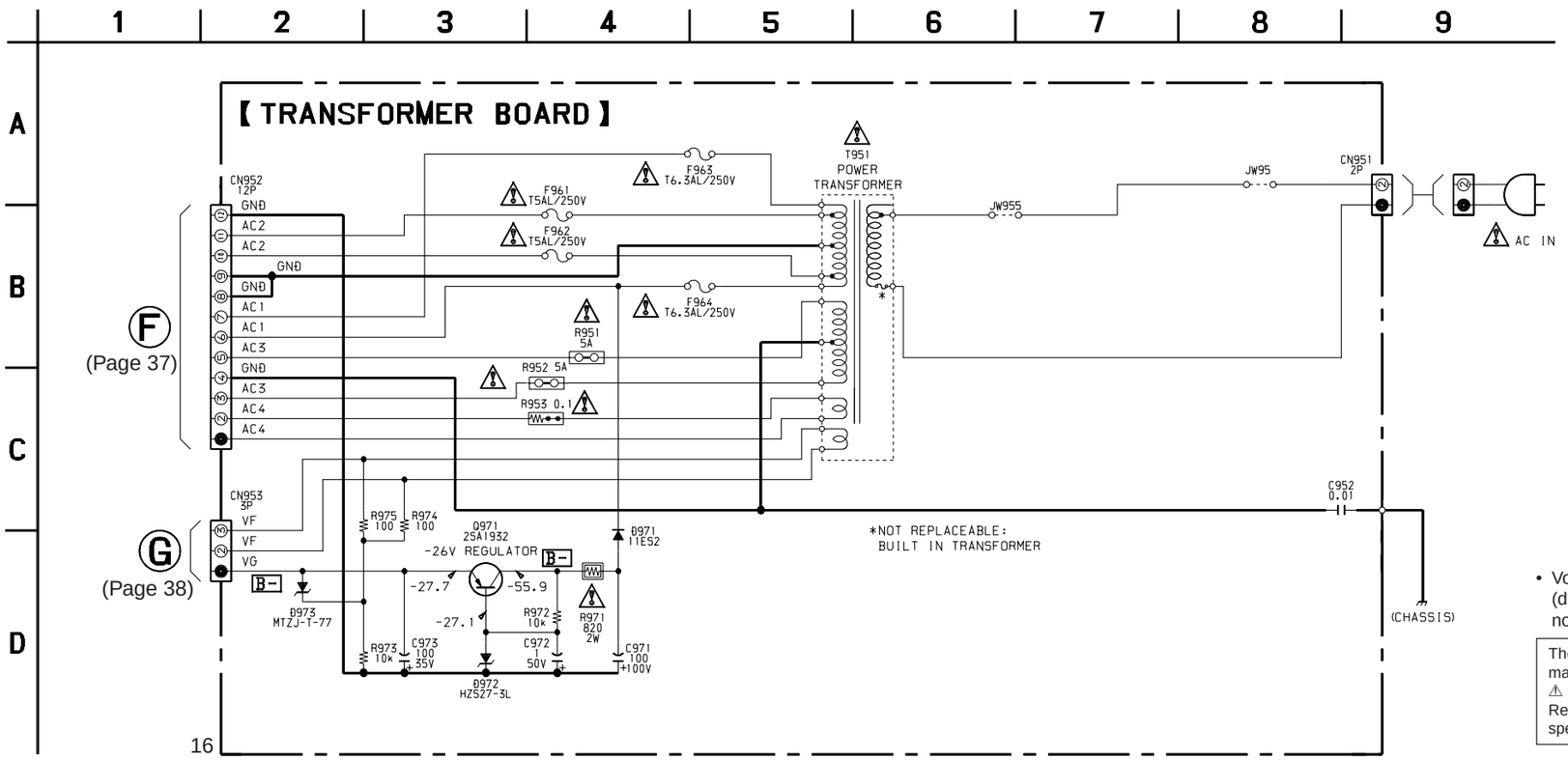
• Refer to page 23 for Circuit Boards Location.

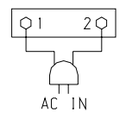


• **Semiconductor Location**

Ref. No.	Location
D971	A-2
D972	A-1
D973	A-1
Q971	A-1

7-24. SCHEMATIC DIAGRAM TRANSFORMER BOARD



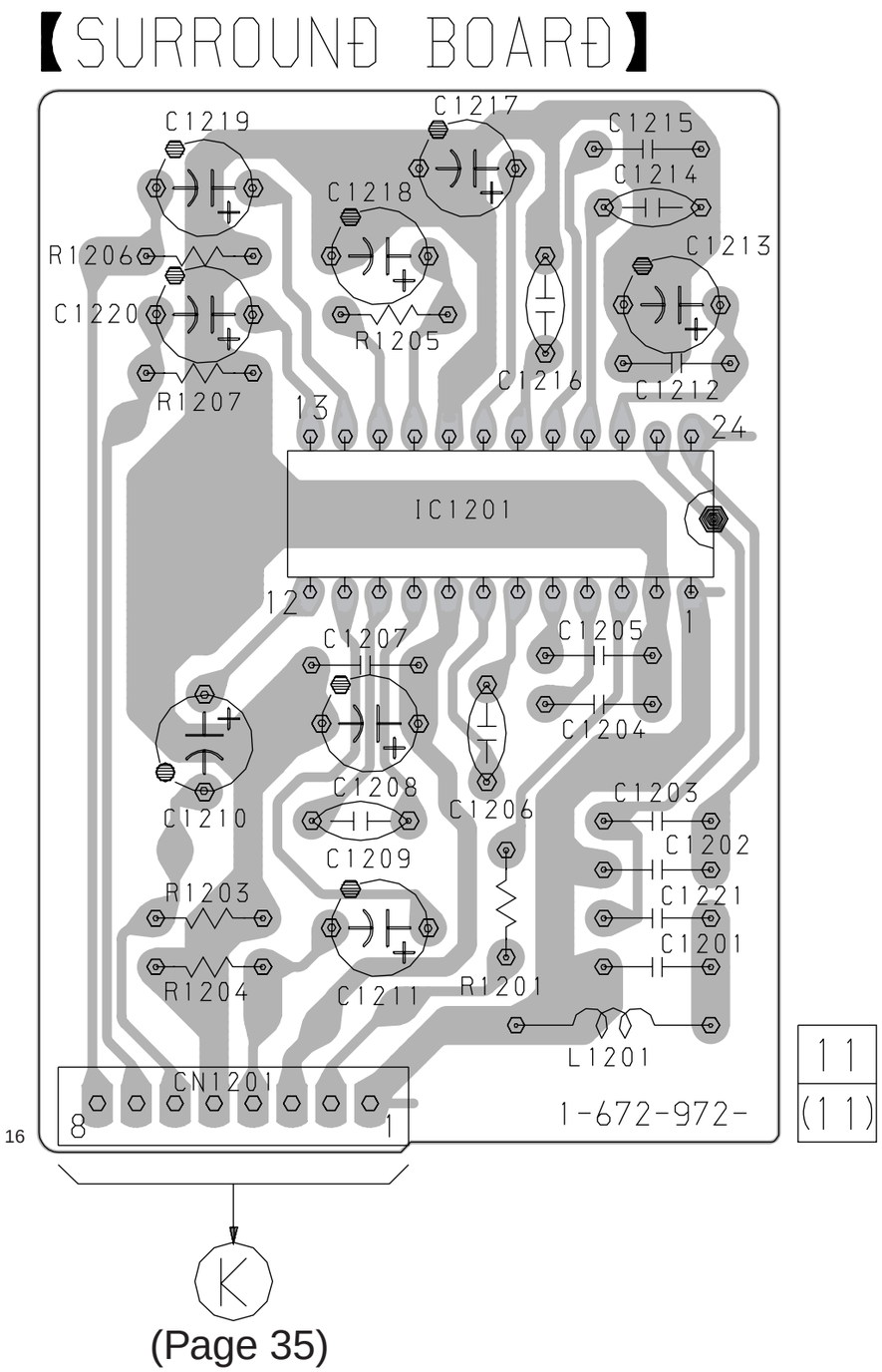


• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : TUNER (FM/AM)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

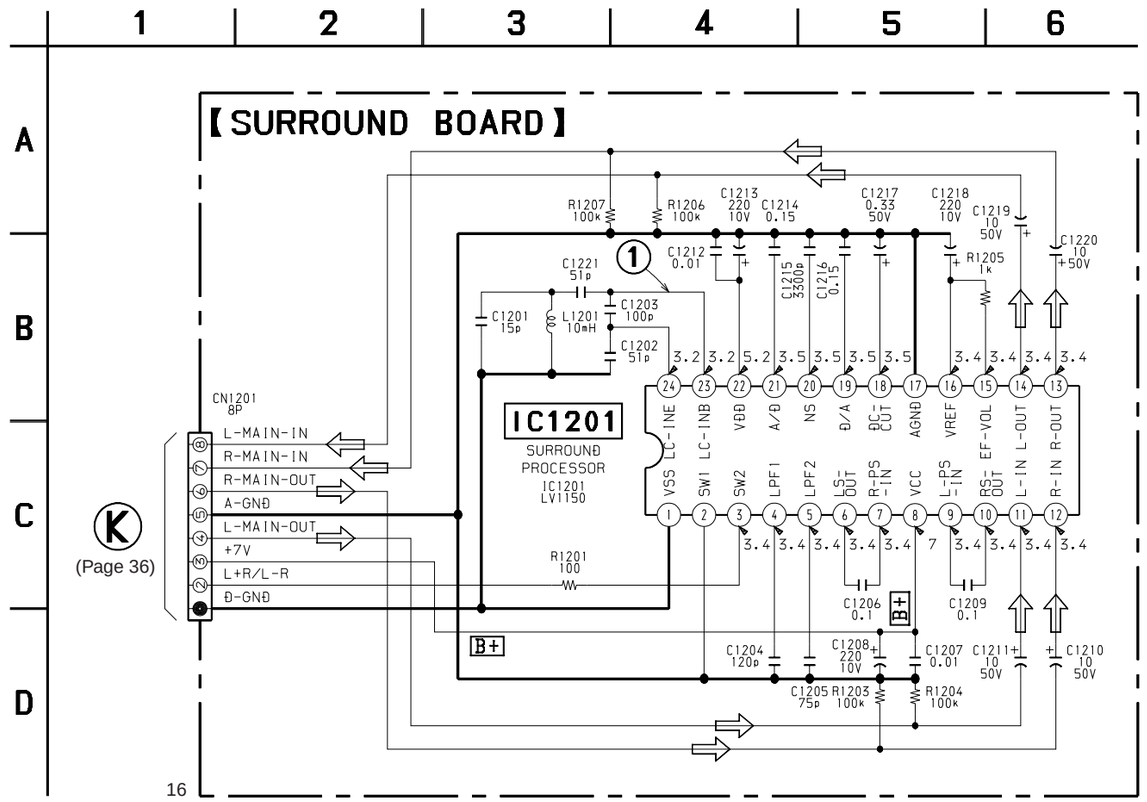
7-25. PRINTED WIRING BOARD SURROUND BOARD

• Refer to page 23 for Circuit Boards Location.



7-26. SCHEMATIC DIAGRAM SURROUND BOARD

• Refer to page 47 for IC Block Diagrams.

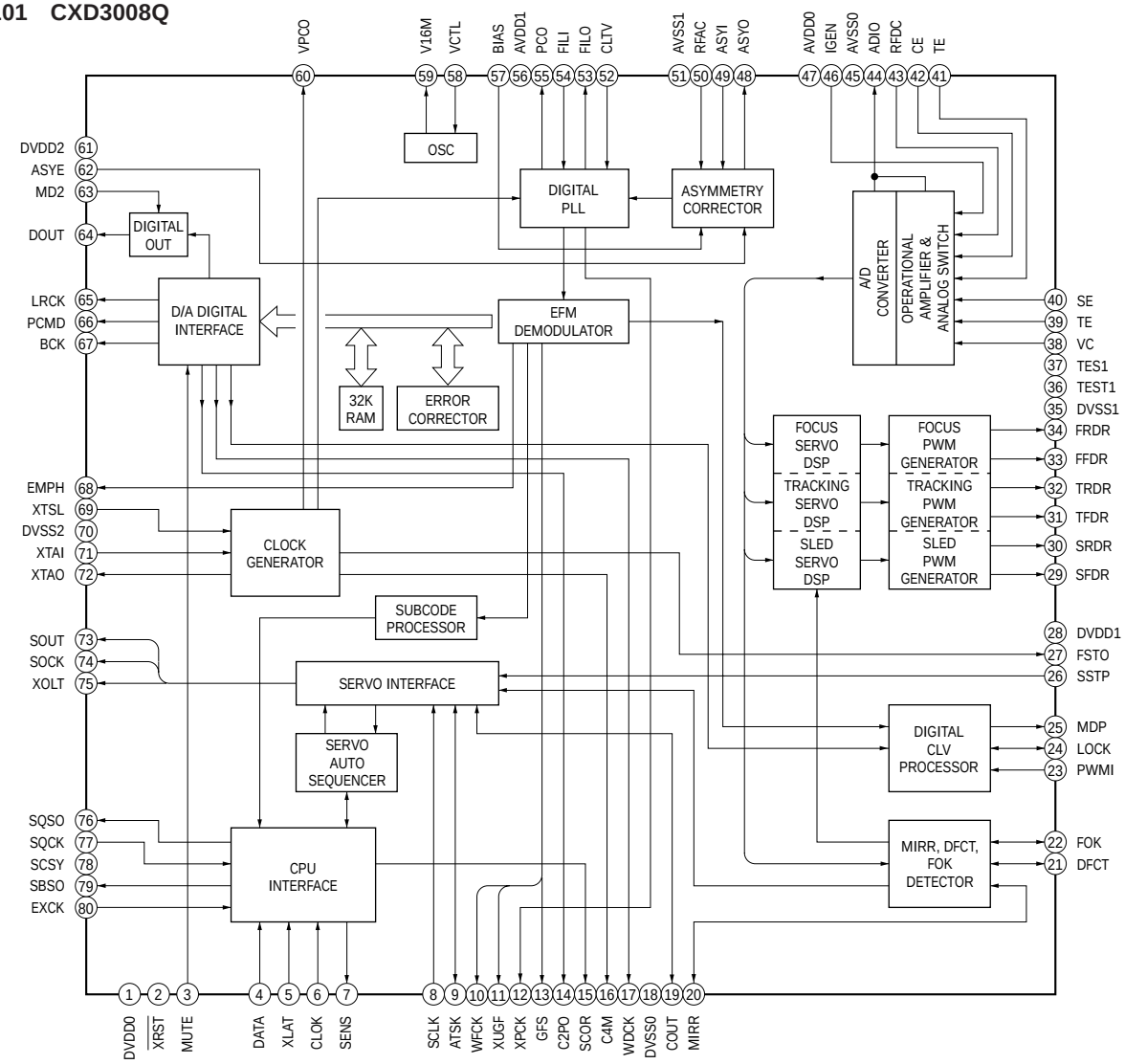


- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER (FM/AM)

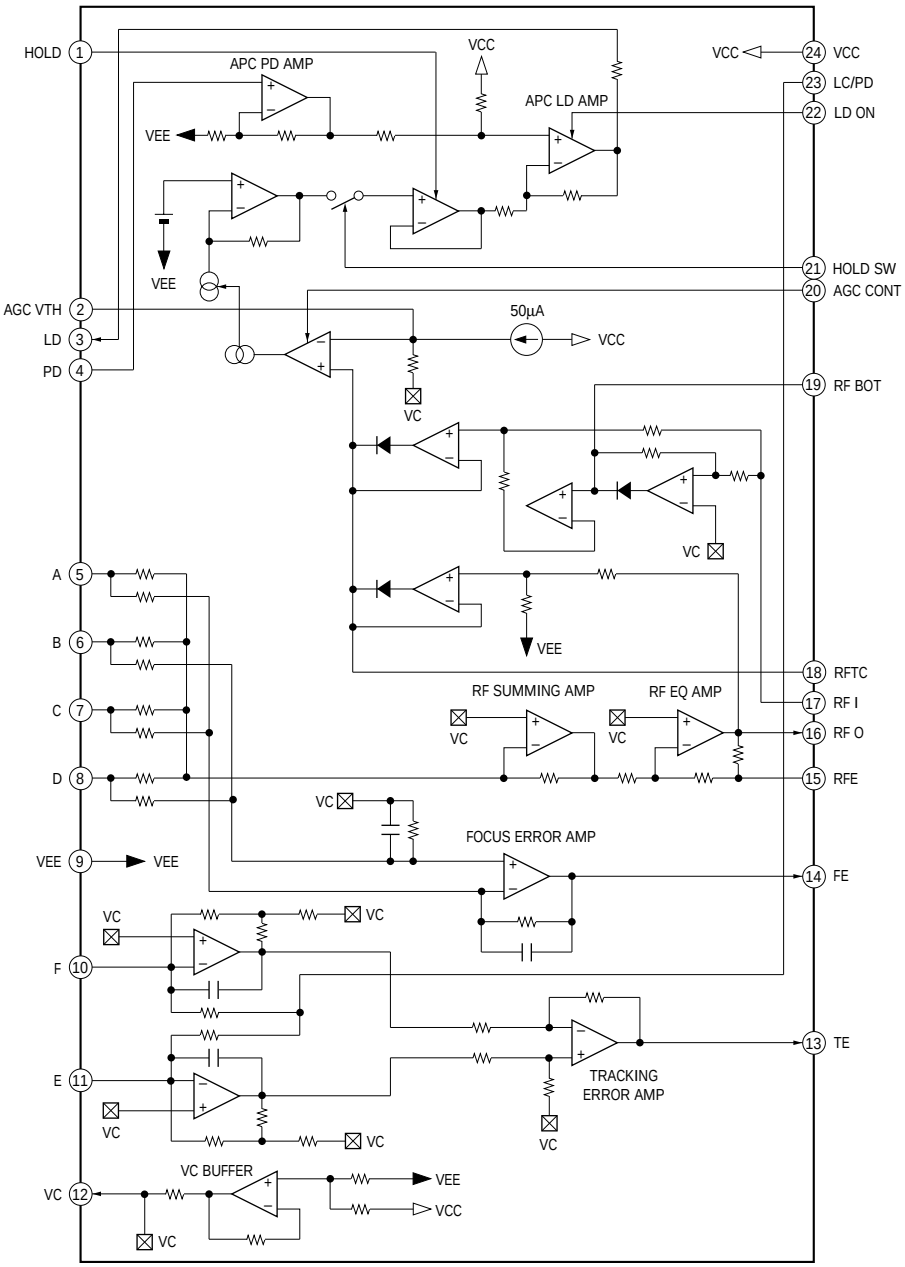
7-27. IC BLOCK DIAGRAMS

BD Board

IC101 CXD3008Q

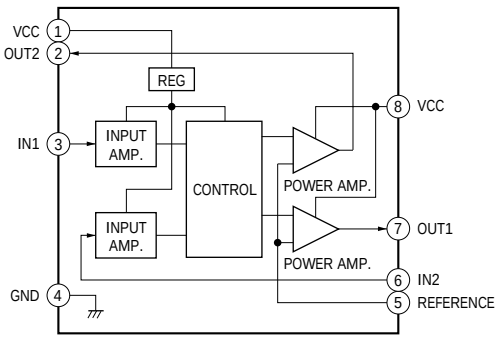


IC103 CXA2568M-T6



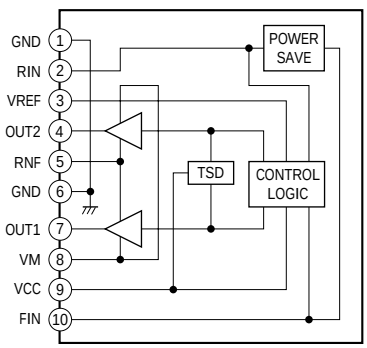
MOTOR (TURN) BOARD

IC701 M54641L



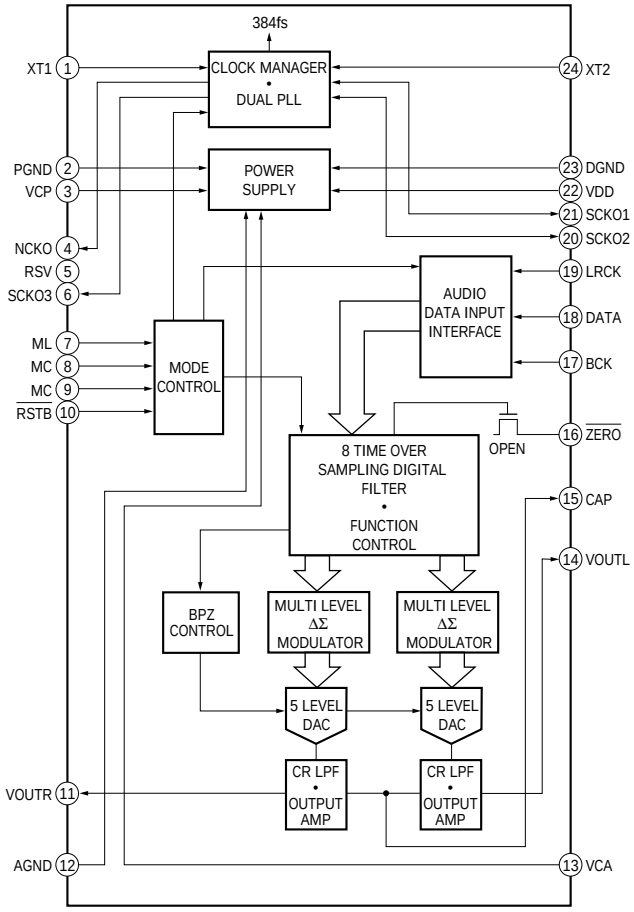
MOTOR (SLIDE) BOARD

IC801 BA6286N



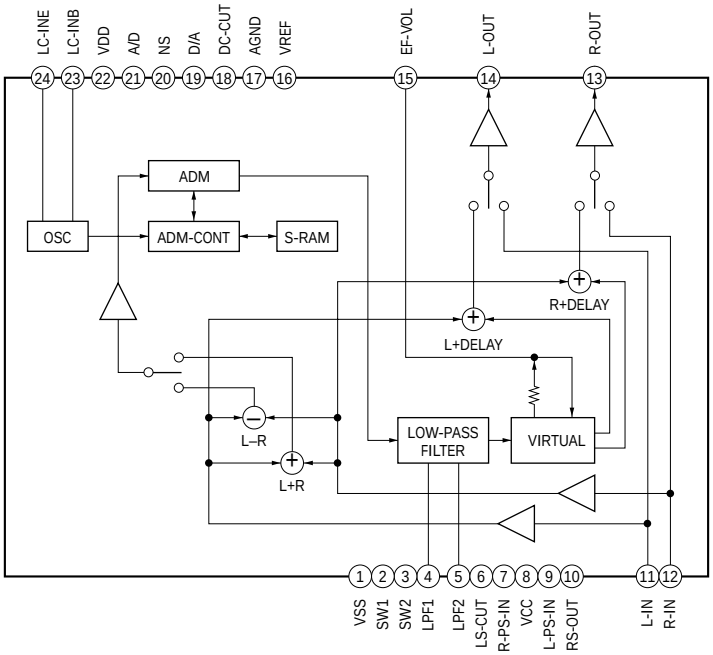
VIDEO BOARD

IC509 PCM1727E-2/T2



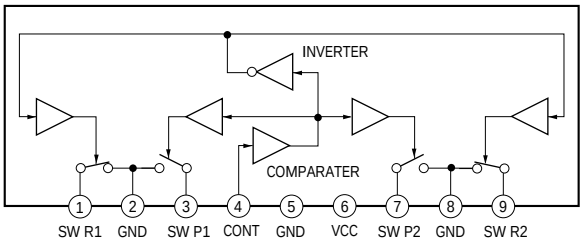
SURROUND BOARD

IC1201 LV1150



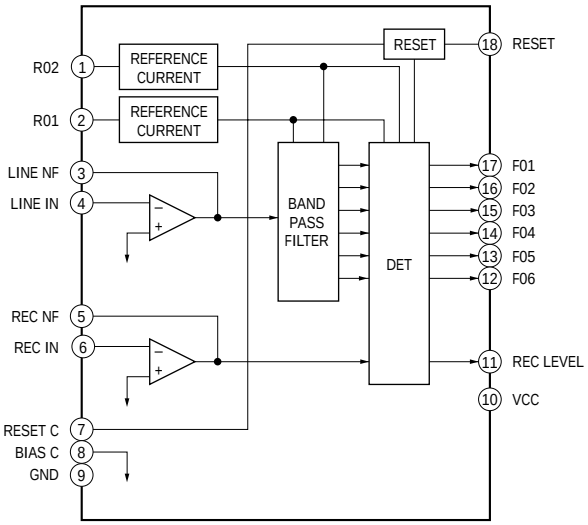
AUDIO BOARD

IC602 µPC1330HA

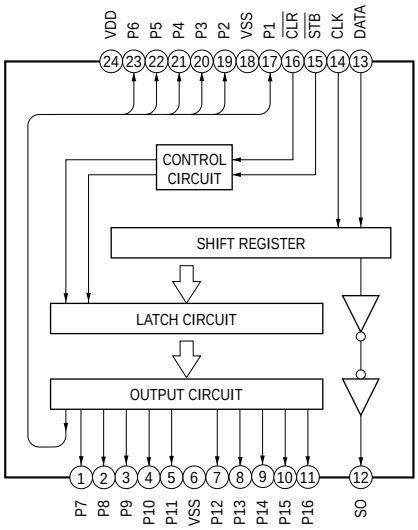


PANEL BOARD

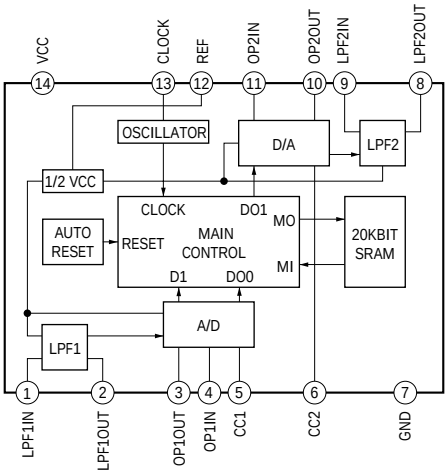
IC603 BA3830F



IC604 NJU3716M-T2



IC711 M65850FP



7-28. IC PIN FUNCTION DESCRIPTION

MAIN BOARD IC105 M30622MA-A09FP (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	STK-MUTE	O	Power amplifier on/off selection signal output terminal "L": standby mode, "H": on
2	POWER	O	Power on/off control signal output for the audio system (+5V) and deck, panel, audio system (+7V) "L": standby mode, "H": power on
3	F-RELAY	O	Relay drive signal output for the speaker protect "H": relay on
4	R-RELAY	O	Relay drive signal output for the speaker protect "H": relay on Not used (open)
5	CD-POWER	O	Power on/off control signal output for the CD/video CD section "L": standby mode, "H": power on
6	LINE-MUTE	O	Line muting on/off control signal output terminal "L": muting on
7	DBFB-H/L	O	DBFB normal/high selection signal output to the M62493FP (IC101) "L": DBFB high, "H": DBFB low
8	BYTE	I	External data bus line byte selection signal input terminal Fixed at "L" in this set
9	CNVSS	—	Ground terminal
10	XC-IN	I	Sub system clock input terminal (32.768 kHz)
11	XC-OUT	O	Sub system clock output terminal (32.768 kHz)
12	RESET	I	System reset signal input from the reset signal generator (IC502) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
13	X-OUT	O	Main system clock output terminal (16 MHz)
14	VSS	—	Ground terminal
15	X-IN	I	Main system clock input terminal (16 MHz)
16	VCC	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal Fixed at "H" in this set
18	WAKE UP	I	Wakeup control signal input from the fluorescent indicator tube driver (IC601) "H" active
19	SCOR	I	Subcode sync (S0+S1) detection signal input terminal Not used (fixed at "L")
20	RDS-INT	I	Serial data transfer clock signal input terminal Not used (fixed at "L")
21	RDS-DATA	I	Serial data input terminal Not used (fixed at "L")
22	AC-CUT	I	AC off detection signal input from the reset signal generator (IC502) "L": AC cut checked
23	PL-CLK	O	Serial data transfer clock signal output to the pro-logic circuit Not used (open)
24	PL-DATA	O	Serial data output to the pro-logic circuit Not used (open)
25	PL-LAT	O	Serial data latch pulse output to the pro-logic circuit Not used (open)
26	TIMER LED	O	LED drive signal output of the TIMER SELECT indicator (D632) "H": LED on
27	PROTECTOR	I	Protect on/off detection signal input from the speaker protect circuit "L": protect on, "H": protect off
28	NCO	O	Not used (open)
29	IIC-CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the CD mechanism controller (IC502) and fluorescent indicator tube driver (IC601)
30	IIC-DATA	I/O	Communication data bus with the CD mechanism controller (IC502) and fluorescent indicator tube driver (IC601)
31	NCO	O	Not used (open)
32	SQ-DATA	I	Subcode Q data input terminal Not used (fixed at "L")
33	SQ-CLK	O	Subcode Q data reading clock signal output terminal Not used (open)
34	SW MODE	O	Not used (open)
35	CD-DATA	O	Serial data output terminal Not used (open)
36	RY-SW	I	Connection detect signal input of the headphone jack (J701) "L": no connected, "H": headphone connected
37	CD-CLK	O	Serial data transfer clock signal output terminal Not used (open)
38	493-LATCH	O	Serial data latch pulse output to the M62493FP (IC101)
39	STBY LED	O	LED drive signal output of the I/⏻ indicator (D754) "H": LED on (standby mode)

Pin No.	Pin Name	I/O	Description
40	VC L+R/L–R	O	Virtual cinema L+R/L–R selection signal output to the LV1150 (IC1201)
41	VC BYPASS	O	Virtual cinema bypass control signal output terminal Not used (open)
42	FL SW	O	Filament on/off selection signal output for the fluorescent indicator tube "L": on, "H": off Not used in this set
43	STBY RELAY	O	Main power on/off control signal output terminal "L": standby mode, "H": power on Not used in this set
44	BASS FREQ.	O	Sync bass frequency normal/high selection signal output to the M62493FP (IC101) "L": sync bass off (normal), "H": sync bass high
45, 46	NCO	O	Not used (open)
47	493-DATA	O	Serial data output to the M62493FP (IC101)
48	493-CLK	O	Serial data transfer clock signal output to the M62493FP (IC101)
49	ST-MUTE	O	Tuner muting control signal output to the FM/AM tuner unit "H": muting on
50	STEREO	I	FM stereo detection signal input from the FM/AM tuner unit "L": stereo
51	TUNED	I	Tuning detection signal input from the FM/AM tuner unit "L": tuned
52	ST-CE	O	PLL chip enable signal output to the FM/AM tuner unit
53	ST-DOUT	O	PLL serial data output to the FM/AM tuner unit
54	ST-DIN	I	PLL serial data input from the FM/AM tuner unit
55	ST-CLK	O	PLL serial data transfer clock signal output to the FM/AM tuner unit
56	SENSE	I	Internal status detection monitor input terminal Not used (fixed at "L")
57	HOLD	O	Laser power control signal output terminal Not used (open)
58	XLT	O	Serial data latch pulse output terminal Not used (open)
59	XRST	O	Reset signal output to the CD mechanism controller (IC502) "L": reset
60	DISC-SENS	I	Disc status detection signal input from the disc sensor (IC703)
61	TBL-SENS	I	Disc tray status detection signal input from the disc tray sensor (IC702)
62	VCC	—	Power supply terminal (+5V)
63	TBL-L	O	Motor drive signal output to the disc tray turn motor driver (IC701) "L" active *1
64	VSS	—	Ground terminal
65	TBL-R	O	Motor drive signal output to the disc tray turn motor driver (IC701) "L" active *1
66	LOAD-OUT	O	Motor drive signal output to the disc tray slide motor driver (IC801) "H" active *2
67	LOAD-IN	O	Motor drive signal output to the disc tray slide motor driver (IC801) "H" active *2
68 to 70	ENC3 to ENC1	I	Detection signal input from the disc tray address detect rotary encoder (S811)
71	OUT-OPEN	I	Detection signal input from the disc tray open/close detect switch (S801) "L": open, "H": close
72	B-TRG	O	Deck-B side trigger plunger drive signal output terminal "H": plunger on
73	A-TRG	O	Deck-A side trigger plunger drive signal output terminal "H": plunger on
74	CAPM-CNT2	O	Capstan motor (M1) drive signal output terminal "H" active *3
75	CAPM-CNT1	O	Capstan motor (M1) drive signal output terminal "H" active *3

*1 Disc tray turn motor (M701) control

Mode / Terminal	Stop	Counter-clockwise	Clockwise	Brake
TBL-L (pin ⑥③)	"H"	"L"	"H"	"L"
TBL-R (pin ⑥⑤)	"H"	"H"	"L"	"L"

*2 Disc tray slide motor (M801) control

Mode / Terminal	Stop	Table In	Table Out	Brake
LOAD-OUT (pin ⑥⑥)	"L"	"L"	"H"	"H"
LOAD-IN (pin ⑥⑦)	"L"	"H"	"L"	"H"

*3 Capstan motor (M1) control

Mode / Terminal	Stop	Forward Direction	Reverse Direction	Brake
CAPM-CNT1 (pin ⑦⑤)	"L"	"L"	"H"	"H"
CAPM-CNT2 (pin ⑦④)	"L"	"H"	"L"	"H"

Pin No.	Pin Name	I/O	Description
76	CAP-M-H/L	O	High/normal speed selection signal output of the capstan motor (M1) “L”: normal speed, “H”: high speed
77	AMS-IN	I	Whether a music is present or not from HA12215F (IC301) is detected at automatic music sensor “L”: music is present, “H”: music is not present
78	TC-MUTE	O	Line muting on/off selection signal output to the HA12215F (IC301) “L”: muting off, “H”: muting on
79	R/P-PASS	O	Recording/playback/pass selection signal output to the HA12215F (IC301) “L”: recording mode, “H”: pass, “Hi-z”: playback mode
80	NR-ON/OFF	O	Dolby NR on/off selection signal output to the HA12215F (IC301) “L”: dolby off, “H”: dolby on
81	REC-MUTE	O	Recording muting on/off selection signal output to the HA12215F (IC301) “L”: muting on, “H”: muting off
82	BIAS	O	Recording bias on/off selection signal output to the HA12215F (IC301) “L”: bias off, “H”: bias on
83	EQ-H/N	O	Normal/high speed selection signal output to the HA12215F (IC301) “L”: normal speed, “H”: high speed
84	PB-A/B	O	Deck-A/B selection signal output to the HA12215F (IC301) “L”: deck-A, “H”: deck-B
85	ALC-ON/OFF	O	Automatic limiter control signal output to the HA12215F (IC301) “L”: limiter on
86	B-PLAY-SW	I	Detection input from the deck- B play detect switch (S1002) “H”: deck-B play
87	A-PLAY-SW	I	Detection input from the deck- A play detect switch (S1001) “H”: deck-A play
88	A-HALF	I	Detection input from the deck-A cassette detect switch (S1003) “L”: cassette in, “H”: no cassette
89	B-HALF	I	Detection input from the deck-B half detect switch (S1006)
90	B-SHUT	I	Shut off detection signal input from the deck-B side reel pulse detector (IC1002)
91	A-SHUT	I	Shut off detection signal input from the deck-A side reel pulse detector (IC1001)
92	SOFT-TEST	O	Output terminal for the software test (open)
93	KEY/CD-ADJ	I	Setting terminal for the CD adjustment mode
94	KEY/CD-ADJ	I	Setting terminal for the CD adjustment mode
95	MODEL-IN	I	Destination setting terminal
96	AVSS	—	Ground terminal (for A/D conversion)
97	SPEC-IN	I	Setting terminal for the version
98	AVREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	TC-RELAY	O	Recording/playback select signal output to the REC/PB switch (IC602) “L”: playback, “H”: recording

VIDEO BOARD IC505 M30624MG-A05FP (CD MECHANISM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	SENSE	I	Internal status (SENSE) signal input from the CXD3008Q (IC101)
2	SENSE CLK	O	Sense serial data reading clock signal output to the CXD3008Q (IC101)
3	DSP DATA	O	Serial data output to the CXD3008Q (IC101)
4	DSP LATCH	O	Serial data latch pulse output to the CXD3008Q (IC101)
5	DSP CLK	O	Serial data transfer clock signal output to the CXD3008Q (IC101)
6	LD ON	O	Laser power selection signal output to the CXA2568M (IC103) "H": laser on
7	REMOTE IN	I	Remote control signal input terminal Not used (open)
8	BYTE	I	External data bus line byte selection signal input "L": 16 bit, "H": 8 bit (fixed at "L")
9	CN VSS	—	Ground terminal
10	DSP MUTE	O	Muting on/off control signal output to the CXD3008Q (IC101) "H": muting on
11	CTRL1	O	Clock selection signal output to the CXD3008Q (IC101) "L": 16.9344 MHz (double speed), "H": 33.8688 MHz
12	$\overline{\text{XRESET}}$	I	Reset signal input from the system controller (IC501) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
13	XOUT	O	Main system clock output terminal (10 MHz)
14	VSS	—	Ground terminal
15	XIN	I	Main system clock input terminal (10 MHz)
16	VCC	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal (fixed at "H" in this set)
18	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD3008Q (IC101)
19	CTRL2	O	AGC HOLD signal output.
20	$\overline{\text{8830 HINT}}$	I	Interrupt request signal input from the MPEG video/audio decoder (IC506)
21	NT/PAL OUT	O	NTSC/PAL select signal output.
22	DF LATCH	O	Serial data latch pulse output to the D/A converter (IC509) "L" active
23	NC	—	Not used.
24	$\overline{\text{8830 RESET}}$	O	Reset signal output to the MPEG video/audio decoder (IC506) "L": reset
25	JOG1	I	Rotary encoder jog dial pulse input terminal Not used (fixed at "H")
26	JOG2	I	Rotary encoder jog dial pulse input terminal Not used (fixed at "H")
27	VMUTE	O	Video muting on/off control signal output terminal "L": muting on
28	OSD CS	O	Chip select signal of D/A converter (IC511).
29	I2C/RX	I/O	I²C and serial data input from CD mechanism control (IC501).
30	I2C/TX	I/O	I²C and serial data output from CD mechanism control (IC501).
31	S-DATA O	O	Serial data output to the MPEG video/audio decoder (IC505) and D/A converter (IC509)
32	S-DATA I	I	Serial data input from the MPEG video/audio decoder (IC505)
33	S-CLK	O	Serial data transfer clock signal output to the MPEG video/audio decoder (IC505) and D/A converter (IC509)
34	RTS1	O	RTS signal to serial port (check connector).
35	NC	O	Not used (open)
36	SUBQ DATA	I	Sub-code Q data input from the CXD3008Q (IC101)
37	SUBQ CLK	O	Sub-code Q data reading clock signal output to the CXD3008Q (IC101)
38	P.ON	O	Power on/off control signal output terminal Not used (open)
39	BUS XRDY	I	Ready signal input terminal Not used (fixed at "H")
40	BUS	O	Not used (open)
41	BUS XHOLD	I	Hold signal input terminal Not used (fixed at "H")

Pin No.	Pin Name	I/O	Description
42, 43	BUS	O	Not used (open)
44	BUS XRD	O	Bus read signal output.
45	BUS	O	Not used.
46	BUS XWR	O	Bus write signal output.
47	8830-CS	O	Chip select signal output. (IC505)
48	AUDIO MUTE	O	Audio muting on/off control signal output terminal "L": muting on Not used (open)
49	LOAD OUT	O	Loading motor drive signal output terminal Not used (open)
50	LOAD IN	O	Loading motor drive signal output terminal Not used (open)
51	INSW	I	Disc detection (load in) switch input terminal Not used (fixed at "H")
52	OUTSW	I	Disc detection (load out) switch input terminal Not used (fixed at "H")
53	MODEL1	I	Destination setting terminal (fixed at "L")
54	MODEL2	I	Destination setting terminal (fixed at "L")
55 to 61	A15 to A9	O	Address signal output for the external device. Not used
62	VCC	—	Power supply terminal (+5V)
63	A8	O	Address signal output for the external device. Not used (open)
64	VSS	—	Ground terminal
65 to 72	A7 to A0	O	Address signal output for the external device.
73	TEST LED	O	LED drive signal output for the self diagnosis indicator (D502) Normally: "L" (LED on)
74	TEST1	I	Setting terminal for the test mode 1 (for VCD check) Normally: fixed at "H" ("L": test mode)
75	TEST2	I	Setting terminal for the test mode 2 (for SERVO check) Normally: fixed at "H" ("L": test mode)
76	TEST3	I	Setting terminal for the test mode 3 Normally: fixed at "H" ("L": test mode) Not used (fixed at "H")
77	DEVICE RESET	O	System reset signal output to the CXD3008Q (IC101), BA5974FP (IC102) and D/A converter (IC509) "L": reset
78	STANDBY	O	Standby on/off control signal output terminal Not used (open)
79	FL CS	O	Chip select signal output terminal Not used (open)
80	FLBLK	O	Blank control signal output terminal Not used (open)
81 to 88	D7 to D0	I/O	Two-way data bus with the external device Not used (open)
89	NC	—	Not used.
90 to 92	KEY1 to KEY3	I	Key input terminal Not used (fixed at "H")
93	NT/PAL	I	Video system select switch (S501) input terminal "L": PAL, "H": NTSC, Center voltage: AUTO
94, 95	NC	—	Not used.
96	AVSS	—	Ground terminal (for A/D conversion)
97	NC	—	Not used.
98	VREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	NC	—	Not used.

VIDEO BOARD IC506 CL8830-PDQ (MPEG VIDEO/AUDIO DECODER, VIDEO SIGNAL PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	PIO[10:0]	I/O	Programmable I/O pins.
2 to 4	HDATA[7:0]	I/O	8bit bl-directional host data bus. Host writes data to the decoder Code FIFO via HDATA[7:0]. MSB of the 32-bit word is written first. The host also reads and writes the decoder internal registers and local SDRAM/ROM via HDATA[7:0].
5	VDD	-	3.3-V supply voltage for core logic and I/O signals.
6	HDATA[7:0]	I/O	8bit bl-directional host data bus. Host writes data to the decoder Code FIFO via HDATA[7:0]. MSB of the 32-bit word is written first. The host also reads and writes the decoder internal registers and local SDRAM/ROM via HDATA[7:0].
7	VSS	-	Ground for core logic and I/O signals.
8 to 11	HDATA[7:0]	I/O	8bit bl-directional host data bus. Host writes data to the decoder Code FIFO via HDATA[7:0]. MSB of the 32-bit word is written first. The host also reads and writes the decoder internal registers and local SDRAM/ROM via HDATA[7:0].
12	VDD	-	3.3-V supply voltage for core logic and I/O signals.
13	$\overline{\text{RESET}}$	I	Hardware reset. An external device asserts $\overline{\text{RESET}}$ (active LOW) to execute a decoder hardware reset. To ensure proper initialization after power in stable, assert RESET for at least 20Ms.
14	VSS	-	Ground for core logic and I/O signals.
15	$\overline{\text{WAIT}}$	O	Active LOW to indicate host initiated transfer is not complete. $\overline{\text{WAIT}}$ is asserted after the falling edge of CS and reasserted when decoder is ready to complete transfer cycle. Open drain signal, must be pulled-up to 3.3 volts. Driven high for 10 ns before tristate.
16	$\overline{\text{INT}}$	O	Host interrupt. Open drain signal, must be pulled-up to 3.3 volts. Driven high for 10 ns before tristate.
17	VDD	-	3.3-V supply voltage for core logic and I/O signals.
19	VSS	-	Ground for core logic and I/O signals.
27	VDD	-	3.3-V supply voltage for core logic and I/O signals.
29	VSS	-	Ground for core logic and I/O signals.
36	VDD	-	3.3-V supply voltage for core logic and I/O signals.
38	VSS	-	Ground for core logic and I/O signals.
40	VDD	-	3.3-V supply voltage for core logic and I/O signals.
42	VSS	-	Ground for core logic and I/O signals.
47	VDD	-	3.3-V supply voltage for core logic and I/O signals.
49	VSS	-	Ground for core logic and I/O signals.
52	PIO[10:0]	I/O	Programmable I/O pins.
53,54	MDATA[15:0]	I/O	Memory address.
55	VDD	-	3.3-V supply voltage for core logic and I/O signals.
56	MDATA[15:0]	I/O	Memory address.
57	VSS	-	Ground for core logic and I/O signals.
58 to 60	MDATA[15:0]	I/O	Memory address.
61	VDD	-	3.3-V supply voltage for core logic and I/O signals.
62	MDATA[15:0]	I/O	Memory address.
63	VSS	-	Ground for core logic and I/O signals.
64	MDATA[15:0]	I/O	Memory address.
65	VDD	-	3.3-V supply voltage for core logic and I/O signals.
66	MDATA[15:0]	I/O	Memory address.
67	VSS	-	Ground for core logic and I/O signals.
68	MDATA[15:0]	I/O	Memory address.
69	VDD	-	3.3-V supply voltage for core logic and I/O signals.
70	MDATA[15:0]	I/O	Memory address.
71	VSS	-	Ground for core logic and I/O signals.
72 to 74	MDATA[15:0]	I/O	Memory address.
75	VDD	-	3.3-V supply voltage for core logic and I/O signals.

Pin No.	Pin Name	I/O	Description
76	MDATA[15:0]	I/O	Memory address.
77	VSS	-	Ground for core logic and I/O signals.
78	MDATA[15:0]	I/O	Memory address.
79	LDQM	O	SDRAM LDQM.
80	UDQM	O	SDRAM UDQM.
81	VDD	-	3.3-V supply voltage for core logic and I/O signals.
82	$\overline{\text{MWE}}$	O	SDRAM/EDO write enable. Decoder asserts active LOW to request a write operation to the SDRAM array.
83	VSS	-	Ground for core logic and I/O signals.
84	SD-CLK	O	SDRAM system cclock.
85	$\overline{\text{SD-CAS}}$	O	Active LOW SDRAM column address.
86	$\overline{\text{SD-RAS}}$	O	Active LOW SDRAM row address.
87	VDD	-	3.3-V supply voltage for core logic and I/O signals.
88	$\overline{\text{SD-CS}}$[1:0]	O	Active LOW SDRAM bank select.
89	VSS	-	Ground for core logic and I/O signals.
90	$\overline{\text{SD-CS}}$[1:0]	O	Active LOW SDRAM bank select.
91	VDD	-	3.3-V supply voltage for core logic and I/O signals.
92	$\overline{\text{EDO-CAS}}$	O	Active LOW EDO DRAM column address strobe.
93	VSS	-	Ground for core logic and I/O signals.
94	$\overline{\text{EDO-RAS}}$	O	Active LOW EDO DRAM Row address strobe.
95	VDD	-	3.3-V supply voltage for core logic and I/O signals.
96	MADDR[20:0]	O	Memory address.
97	VSS	-	Ground for core logic and I/O signals.
98 to 100	MADDR[20:0]	O	Memory address.
101	VDD	-	3.3-V supply voltage for core logic and I/O signals.
102	MADDR[20:0]	O	Memory address.
103	VSS	-	Ground for core logic and I/O signals.
104 to 106	MADDR[20:0]	O	Memory address.
107	VDD	-	3.3-V supply voltage for core logic and I/O signals.
108	MADDR[20:0]	O	Memory address.
109	VSS	-	Ground for core logic and I/O signals.
110 to 112	MADDR[20:0]	O	Memory address.
113	VDD	-	3.3-V supply voltage for core logic and I/O signals.
114	MADDR[20:0]	O	Memory address.
115	VSS	-	Ground for core logic and I/O signals.
116	MADDR[20:0]	O	Memory address.
117	VDD	-	3.3-V supply voltage for core logic and I/O signals.
118	MADDR[20:0]	O	Memory address.
119	VSS	-	Ground for core logic and I/O signals.
120 to 122	MADDR[20:0]	O	Memory address.
123	VDD	-	3.3-V supply voltage for core logic and I/O signals.
124	MADDR[20:0]	O	Memory address.
125	VSS	-	Ground for core logic and I/O signals.
126,127	MADDR[20:0]	O	Memory address.
128	$\overline{\text{ROM-CS}}$	O	ROM chip select. Open drain signal, must be pulled-up to 3.3 volts.
129	PIO[10:0]	I/O	Programmable I/O pins.
133	PIO[10:0]	I/O	Programmable I/O pins.
134	VDD	-	3.3-V supply voltage for core logic and I/O signals.
136	VSS	-	Ground for core logic and I/O signals.
138	PIO[10:0]	I/O	Programmable I/O pins.

Pin No.	Pin Name	I/O	Description
141	PIO[10:0]	I/O	Programmable I/O pins.
142,143	VDATA[7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
144	VDD	-	3.3-V supply voltage for core logic and I/O signals.
145	VDATA[7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
146	VSS	-	Ground for core logic and I/O signals.
147	PIO[10:0]	I/O	Programmable I/O pins.
148	VDATA[7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
149	VDD	-	3.3-V supply voltage for core logic and I/O signals.
150	VDATA[7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
151	VSS	-	Ground for core logic and I/O signals.
152	VDATA[7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
153	PIO[10:0]	I/O	Programmable I/O pins.
154,155	VDATA[7:0]	O	Video data bus. Byte serial CdYCrY data synchronous with VCLK. At power-up, the decoder does not drive VDATA. During boot-up, the decoder uses configuration parameters to drive or 3-state VDATA.
157	$\overline{\text{HSYNC}}$	I/O	Horizontal sync. The decoder begins outputting pixel data for a new horizontal line after the falling (active) edge of $\overline{\text{HSYNC}}$.
158	$\overline{\text{VSYNC}}$	I/O	Vertical sync. Bi-directional, the decoder outputs the top border of a new field on the first $\overline{\text{HSYNC}}$ after the falling edge of $\overline{\text{VSYNC}}$. $\overline{\text{VSYNC}}$ can accept vertical synchronization or top/bottom field notification from an external source. ($\overline{\text{VSYNC}}$ HIGH=bottom field. $\overline{\text{VSYNC}}$ LOW=Top field)
160	VDD	-	3.3-V supply voltage for core logic and I/O signals.
161	DA-DATA	O	Serial audio samples relative to DA-BCK clock.
162	VSS	-	Ground for core logic and I/O signals.
166	DA-LRCK	O	PCM left-right colck. Identifies the channel for each audio sample. the polarity is programmable.
167	DA-BCK	O	PCM bit clock. Divided by 8 form DA-XCX, DA-BCK can be either 48 or 32 times the sampling clock.
168	VDD	-	3.3-V supply voltage for core logic and I/O signals.
169	DA-XCX	I/O	Audio external frequency clock. Used to generate DA-BCK and DA-LRCK. DA-XCK can be either 384 or 256 times the sampling frequency.
170	VSS	-	Ground for core logic and I/O signals.
171	DAI-DATA	I	PCM input data, two channels. Serial audio samples relative to DA-BCK clock, resulting in downmixed audio output.
172	DAI-LRCK	I	PCM input left-right clock.
173	DAI-BCK	I	PCM input bit clock.
174	PIO[10:0]	I/O	Programmable I/O pins.
175	VDD	-	3.3-V supply voltage for core logic and I/O signals.
176	A-VDD	-	3.3-V analog supply voltage.
177	VCLK	I	Video clock. Clocks out data on input. VDATA[7:0]. Clock is typically 27 MHz.
178	SYSCLK	I	System clock. Decoder requires an external 27MHz TTL oscillator. Drive with the same 27-MHz as VCK.
179	A-VSS	-	Analog ground for PLL.
180	CD-DATA	I	Serial CD data.
181	VDD	-	3.3-V supply voltage for core logic and I/O signals.
182	CD-LRCK	I	Programmable polarity 16-bit word synchronization to the decoder (right channel HIGH).
183	VSS	-	Ground for core logic and I/O signals.
184	CD-BCK	I	CD bit clock. Decoder accept multiple BCK rates.
185	CD-C2PO	I	Asserted HIGH indicates a corrupted byte. Decoder keeps the previous valid picture on-screen until the next valid picture is decoded.
190	PIO[10:0]	I/O	Programmable I/O pins.

Pin No.	Pin Name	I/O	Description
190	PIO[10:0]	I/O	Programmable I/O pins.
193	VDD	-	3.3-V supply voltage for core logic and I/O signals.
195	VSS	-	Ground for core logic and I/O signals.
197	VDD	-	3.3-V supply voltage for core logic and I/O signals.
199	VSS	-	Ground for core logic and I/O signals.
202 to 204	HADDR[2:0]	I	Host address bus. 3-bit address bus selects one of eight host interface registers.
206	$\overline{CS}$	I	Host chip select. Host asserts CS to select the decoder for a read or write operation. The falling edge of this signal triggers the read of write operation.
207	R/W	I	Read/write strobe in M mode. Write strobe in I mode. Host asserts R/W LOW to select write and LOW to select Read.
208	RD	I	Read strobe in I mode. Must be held HIGH in M Mode.

PANEL BOARD IC601 TMP88CS76F-6005 (FRUORESCENT INDICATOR TUBE DRIVER, KEY CONTROL)

Pin No.	Pin Name	I/O	Description
1	SIRCS	I	Remote control signal input from the remote control receiver (IC602)
2	JOG-A	I	Jog dial pulse input from the rotary encoder (S601 JOG) (A phase input)
3	LED SCK	O	Serial data transfer clock signal output to the LED driver (IC604)
4	LED LAT	O	Serial data latch pulse signal output to the LED driver (IC604)
5	LED DATA	O	Serial data output to the LED driver (IC604)
6	PAD LAT	O	Not used (open)
7	L SEL	O	LED selection signal output terminal
8	JOG-B	I	Jog dial pulse input from the rotary encoder (S601 JOG) (B phase input)
9	VOL-A	I	Jog dial pulse input from the rotary encoder (S602 VOLUME) (A phase input)
10	VOL-B	I	Jog dial pulse input from the rotary encoder (S602 VOLUME) (B phase input)
11	KEY0	I	Key input terminal (A/D input) (S625 to S630 and S632 to S635) REC PAUSE/START, HI-DUB, CD SYNC, CD LOOP, DISPLAY, SPECTRUM ANALYZER, SELECT, RETURN, PREV, NEXT keys input
12	KEY1	I	Key input terminal (A/D input) (S611 to S624) SYNC BASS, SYNC EQ, KARAOKE PON/MPX, CD NON-STOP, CINEMA SPACE SURROUND, DBFB, ENTER/NEXT, + ▶▶, – ◀◀, GROOVE, CD FLASH, REPEAT STEREO/MONO, PLAY MODE DOLBY NR, EDIT DIRECTION TUNER MEMORY keys input
13	KEY2	I	Key input terminal (A/D input) (S638 to S642 and S751 to S757) TIMER SELECT, P FILE MEMORY, GEQ CONTROL, FILE SELECT, EFFECT, I/⏻, (STANDBY) POWER SAVE DEMO, DISC 1/2/3, DISC SKIP EX-CHANGE, ⏏ keys input
14	KEY3	I	Key input terminal (A/D input) (S643 to S651) TUNER/BAND, ► ❚❚ CD, ■, ► TAPE B, ◄ TAPE B, ► TAPE A, ◄ TAPE A, FUNCTION, CLOCK/TIMER SET keys input
15	GRAD L2	O	Not used (open)
16	S LOW FREQ (BPF0)	I	Spectrum analyzer drive (super low frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 40 Hz)
17	BPF1	I	Spectrum analyzer drive (low frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 100 Hz)
18	BPF2	I	Spectrum analyzer drive (low and middle frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 400 Hz)
19	BPF3	I	Spectrum analyzer drive (middle and high frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 2 kHz)
20	BPF4	I	Spectrum analyzer drive (high frequency) signal input from the spectrum analyzer band-pass filter (IC603) (for 6 kHz)
21	ALL BAND (L+R)	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for VACS, non-stop signal)
22	WAKE UP	O	Wakeup control signal output to the system controller (IC501) “H” active
23	VSS	—	Ground terminal
24	VASS	—	Ground terminal (for A/D conversion)
25	VAREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
26	VDD	—	Power supply terminal (+5V)
27 to 32	G18 to G13	O	Grid drive signal output to the fluorescent indicator tube (FL601)
33 to 40	G12 to G5	O	Grid drive signal output to the fluorescent indicator tube (FL601)
41	VDD	—	Power supply terminal (+5V)
42 to 44	G4 to G2	O	Grid drive signal output to the fluorescent indicator tube (FL601)
45	G1	O	Grid drive signal output to the fluorescent indicator tube (FL601)
46 to 67	S1 to S22	O	Segment drive signal output to the fluorescent indicator tube (FL601)
68	VKK	—	Power supply terminal (–30V) (for fluorescent indicator tube drive)

Pin No.	Pin Name	I/O	Description
69	VDD	—	Power supply terminal (+5V)
70	XIN	I	System clock input terminal (12.5 MHz)
71	VSS	—	Ground terminal
72	XOUT	O	System clock output terminal (12.5 MHz)
73	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC502) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
74	CH	O	Not used (open)
75	BUSY	I	Not used (fixed at "L")
76	TEST	I	Connected to ground
77	GRAD R1	O	Not used (open)
78	I2C DATA	I/O	Communication data bus with the system controller (IC501) and CD mechanism controller (IC502)
79	I2C CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the system controller (IC501) and CD mechanism controller (IC502)
80	GRAD R2	O	Not used (open)

SECTION 8
EXPLODED VIEWS

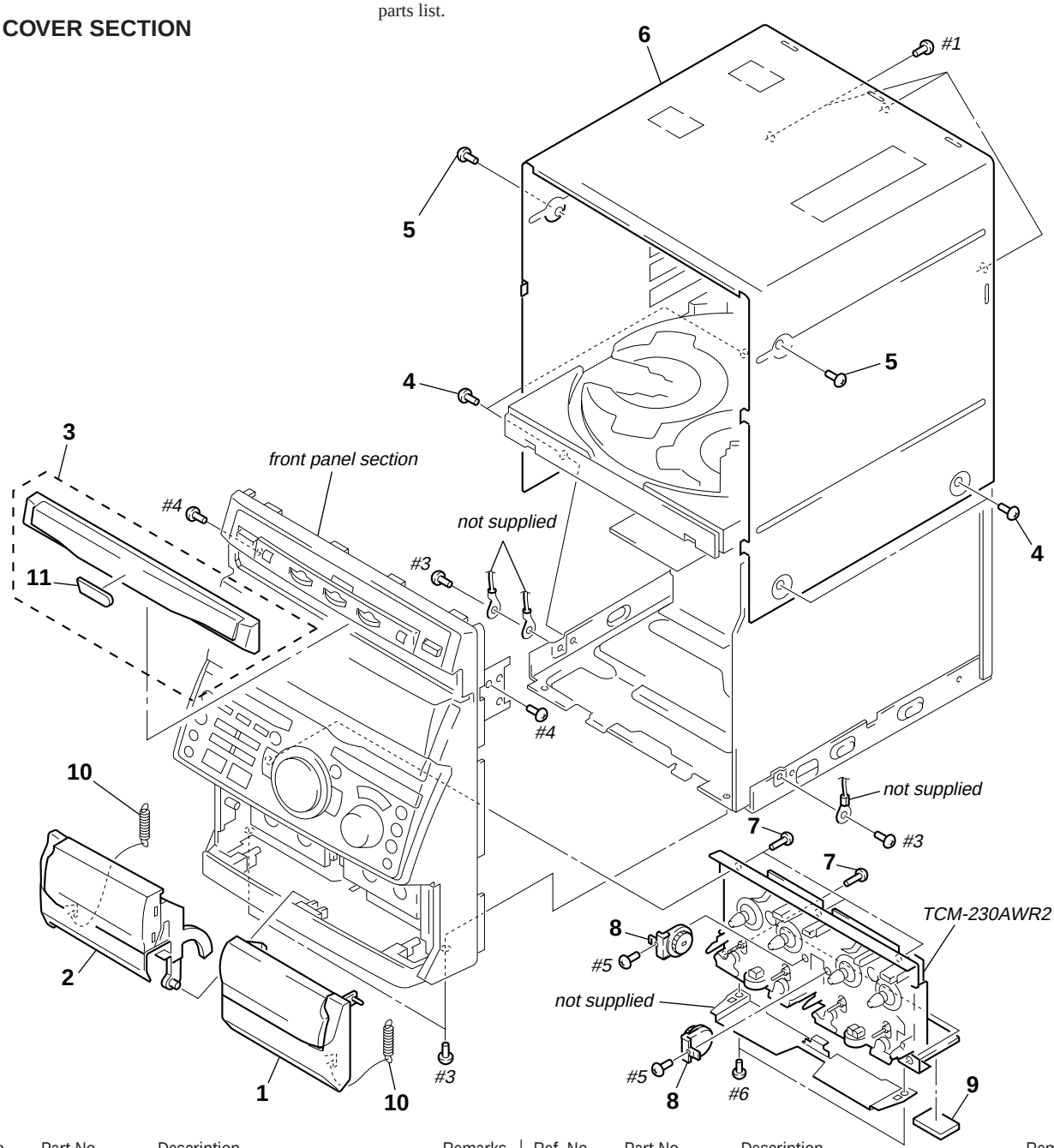
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts of Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

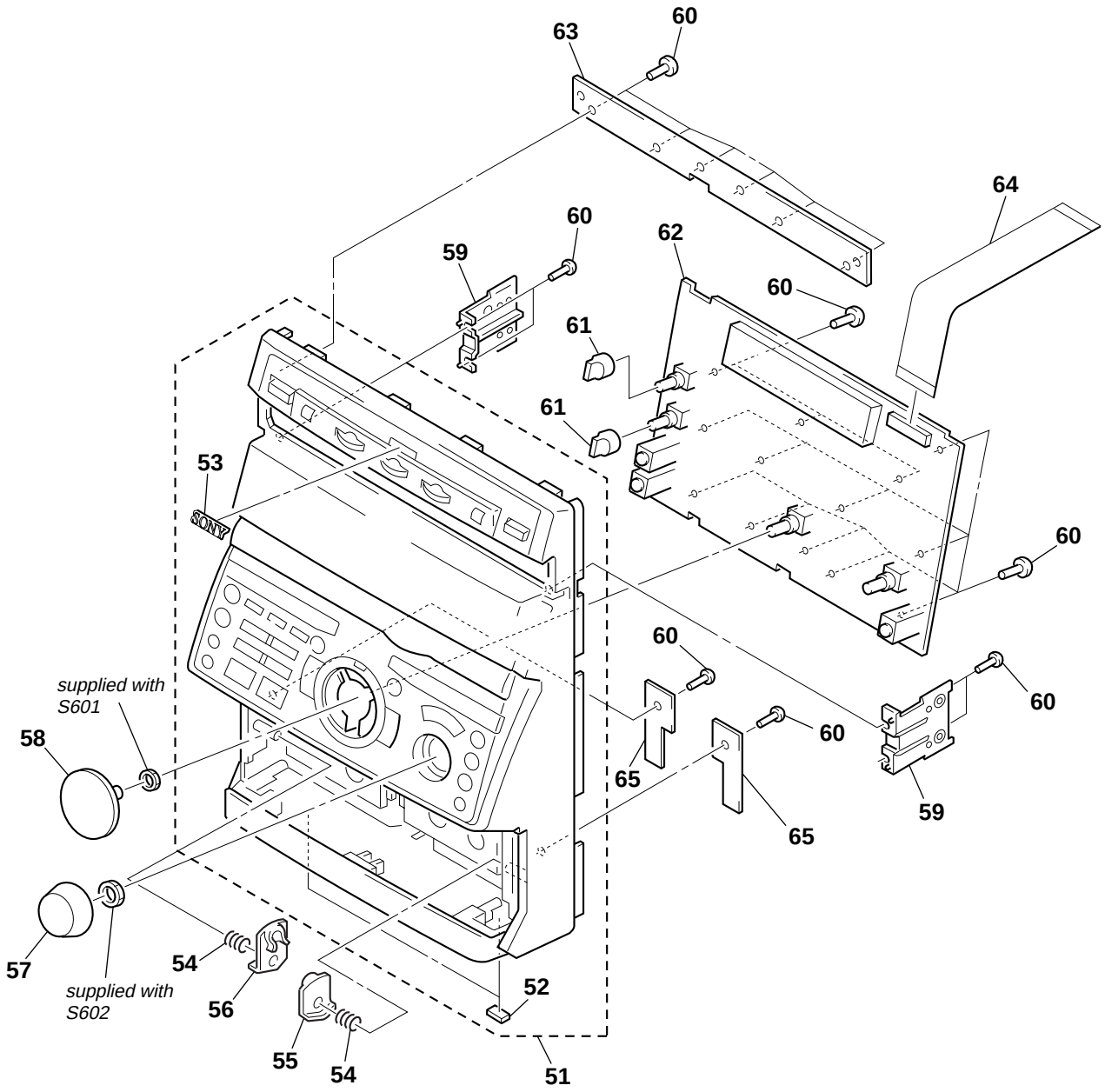
(1) COVER SECTION



Ref. No.	Part No.	Description	Remarks
1	X-4950-832-2	HOLDER (R) ASSY, CASSETTE	
2	X-4951-067-1	HOLDER (L) ASSY, CASSETTE	
3	X-4952-096-1	PANEL ASSY, LOADING	
4	3-363-099-11	SCREW(CASE 3 TP2)	
5	3-363-099-71	SCREW(CASE 3 TP2)	

Ref. No.	Part No.	Description	Remarks
6	4-215-179-01	UPPER CASE	
7	4-951-620-01	SCREW(2.6 × 8), +BVTP	
8	4-215-062-01	DAMPER	
9	4-985-642-01	CUSHION	
10	4-219-087-01	SPRING, TENSION	
11	4-223-216-01	EMBLEM (S-VCD)	

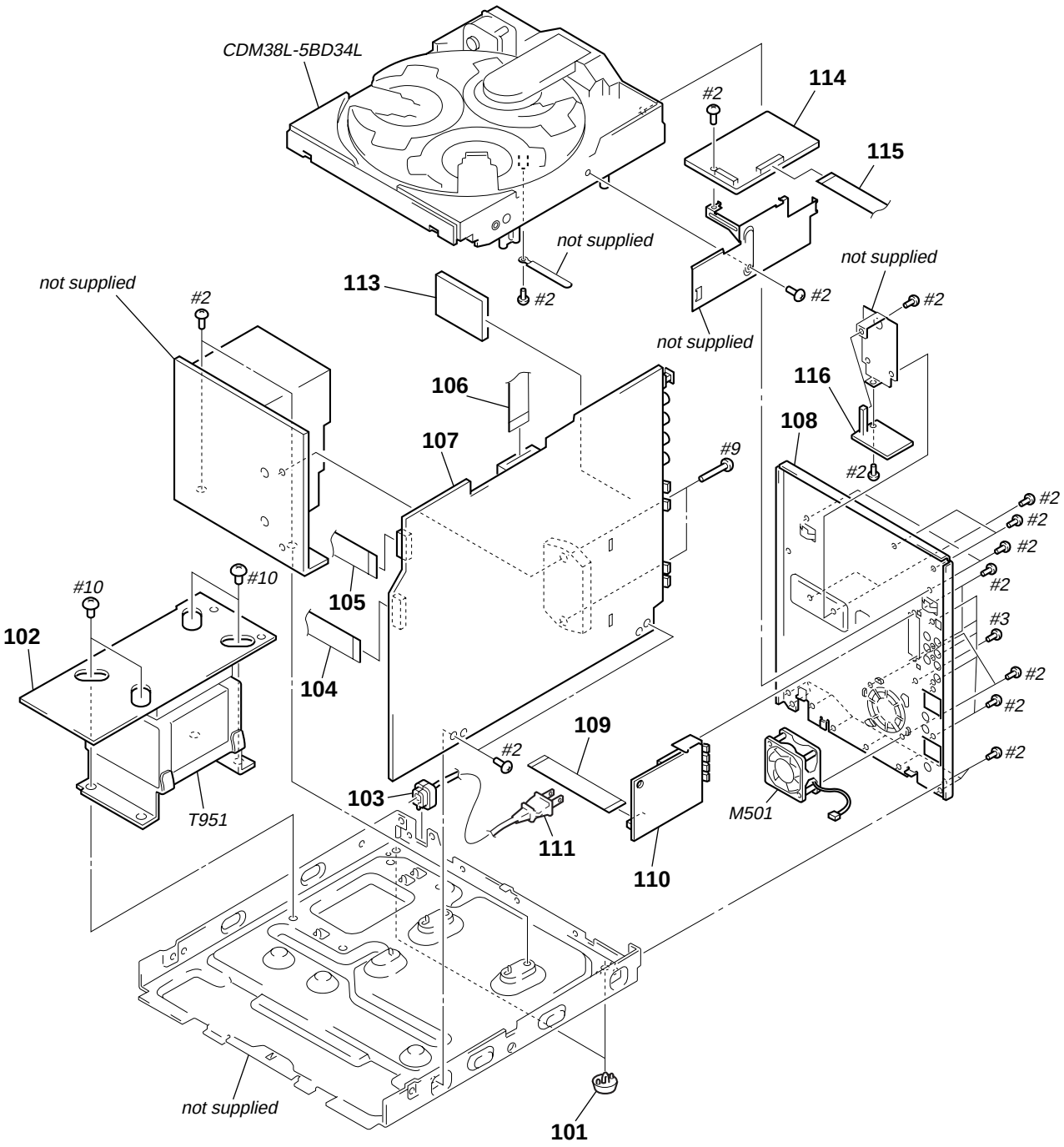
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
51	X-4952-127-1	PANEL ASSY, FRONT	
52	4-930-336-61	FOOT(FELT)	
53	4-962-708-71	EMBLEM (4-A), SONY	
54	4-214-775-13	SPRING, PUSH CATCHER RETURN	
55	4-214-761-11	CATCHER (B), PUSH	
56	4-214-760-11	CATCHER (A), PUSH	
57	4-214-384-11	KNOB(VOL)	
58	4-214-383-11	KNOB(JOG)	

Ref. No.	Part No.	Description	Remarks
* 59	4-996-716-01	HOLDER (CDM)	
60	4-951-620-01	SCREW (2.6 × 8), +BVTP	
61	4-214-385-11	KNOB(MIC)	
62	A-4426-761-A	PANEL BOARD, COMPLETE	
63	A-4426-760-A	SW BOARD, COMPLETE	
64	1-773-188-11	WIRE(FLAT TYPE) (23 CORE)	
65	1-674-232-11	PWB,PUSH CATCH STOP	

(3) CHASSIS SECTION

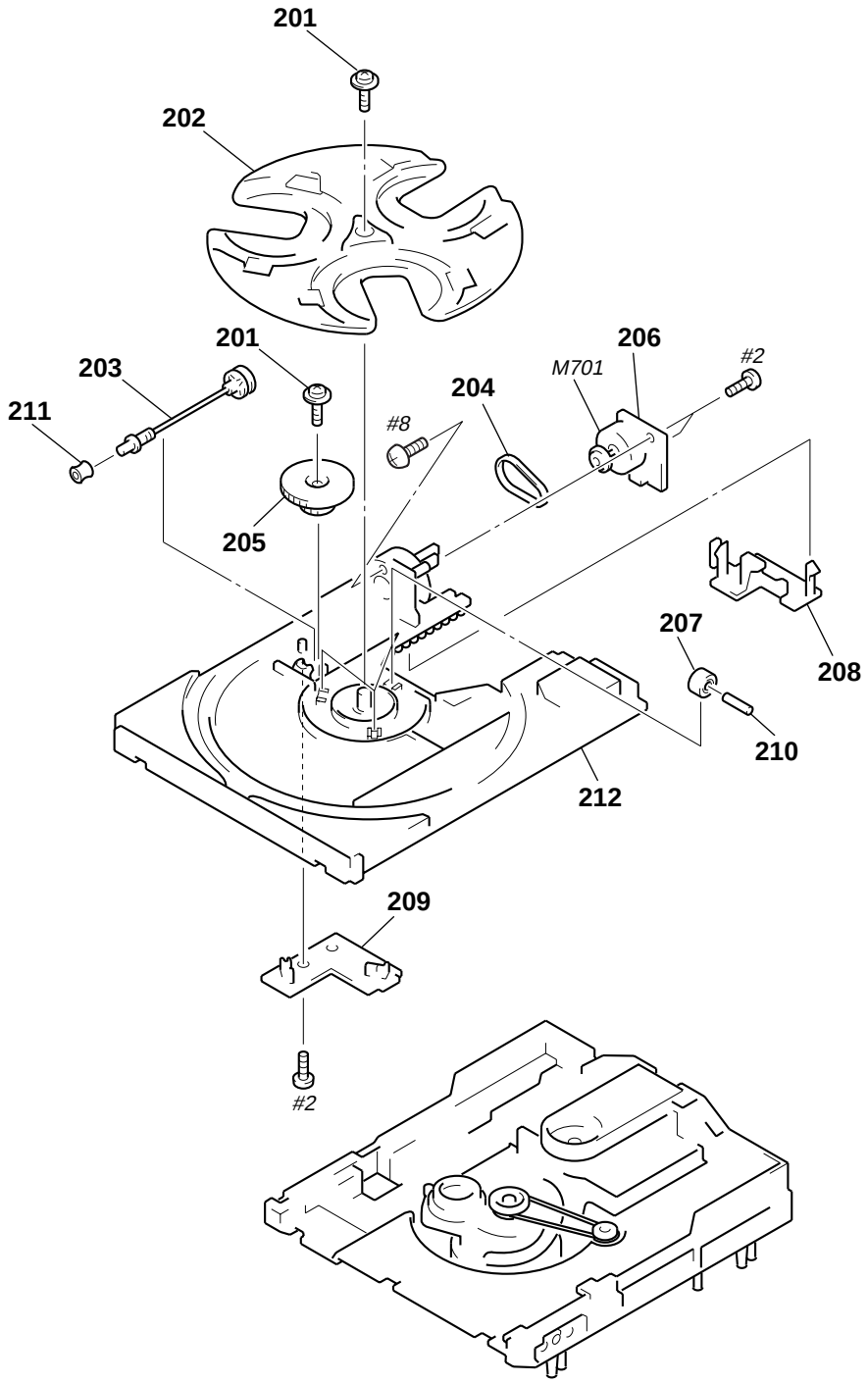


Ref. No.	Part No.	Description	Remarks
101	4-965-822-01	FOOT	
* 102	1-672-369-11	TRANSFORMER BOARD	
* 103	3-703-244-00	BUSHING (2104), CORD	
104	1-773-043-11	WIRE (FLAT TYPE) (17 CORE)	
105	1-773-024-11	WIRE (FLAT TYPE) (15 CORE)(32cm)	
106	1-791-517-11	WIRE (FLAT TYPE) (15 CORE)(17cm)	
107	A-4426-767-A	MAIN BOARD, COMPLETE	
108	4-215-640-81	PANEL, BACK	
109	1-773-009-11	WIRE (FLAT TYPE) (15 CORE)(15cm)	

Ref. No.	Part No.	Description	Remarks
110	1-693-381-11	TUNER, FM/AM	
⚠111	1-782-464-21	CORD, POWER	
113	A-4426-775-A	SURROUND BOARD, COMPLETE	
114	A-4724-927-A	VIDEO BOARD, COMPLETE	
115	1-775-229-11	WIRE (FLAT TYPE) (25 CORE)	
116	1-675-906-11	5V POWER BOARD	
M501	1-763-072-11	FAN, DC	
⚠T951	1-433-565-31	TRANSFORMER, POWER	

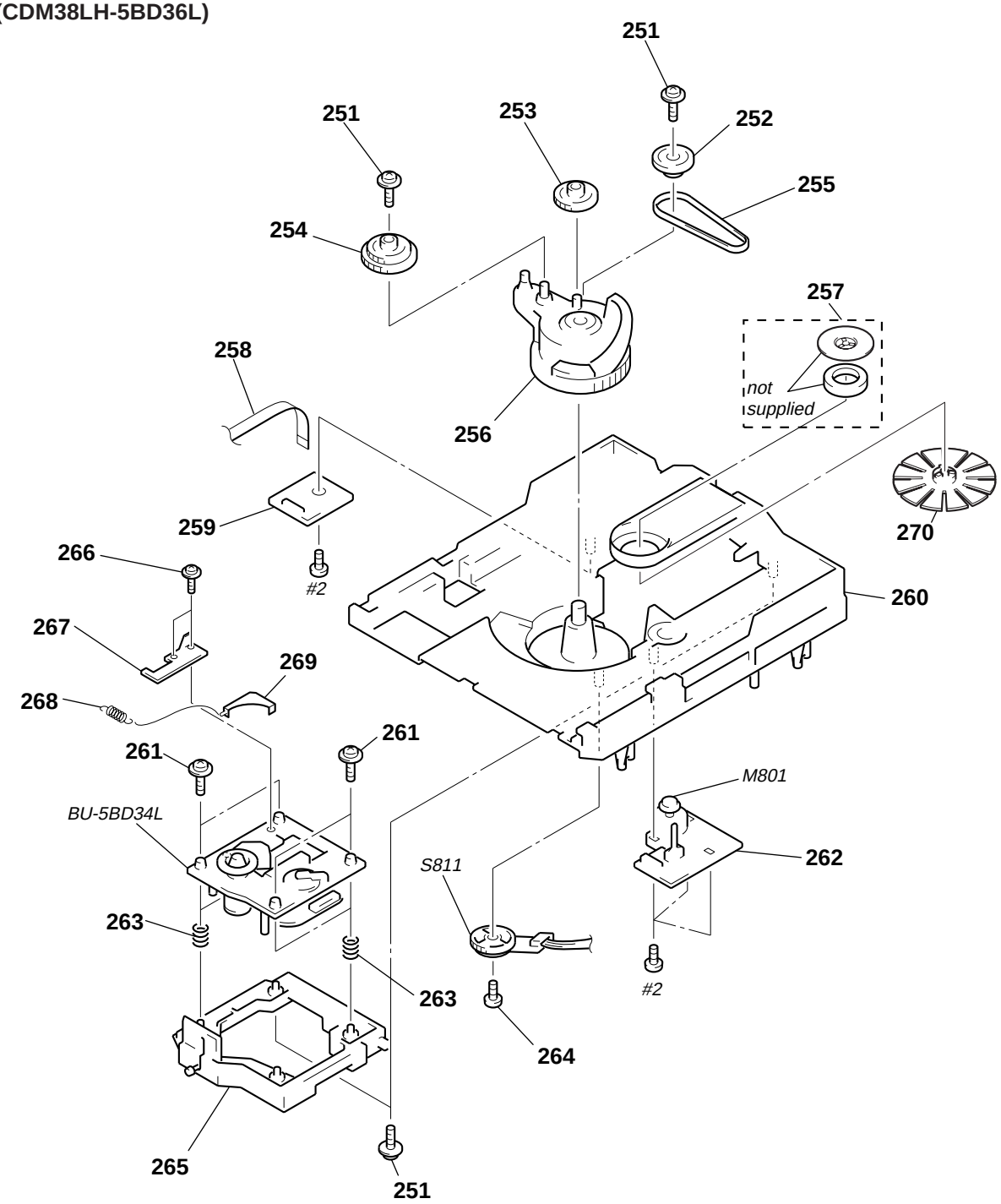
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

(4) CD MECHANISM DECK SECTION-1 (CDM38LH-5BD36L)



Ref. No.	Part No.	Description	Remarks
201	4-981-789-01	BRACKET (2), YOKE	
202	4-977-945-63	TRAY (TURN)	
203	X-4946-665-1	SHAFT ASSY, WORM	
204	4-977-943-01	BELT (TURN) (1.2)	
205	4-977-956-01	WHEEL, WORM	
* 206	1-658-577-11	MOTOR (TURN) BOARD	
207	4-988-162-01	ROLLER	
208	4-977-941-01	BEARING (WORM)	
* 209	1-658-576-11	SENSOR BOARD	
210	4-934-376-01	SHAFT (ROLLER)	
211	4-981-187-01	COLLAR (WORM)	
212	4-977-944-01	TRAY (SLIDE)	
M701	A-4672-004-A	MOTOR ASSY (DISC TRAY SLIDE)	

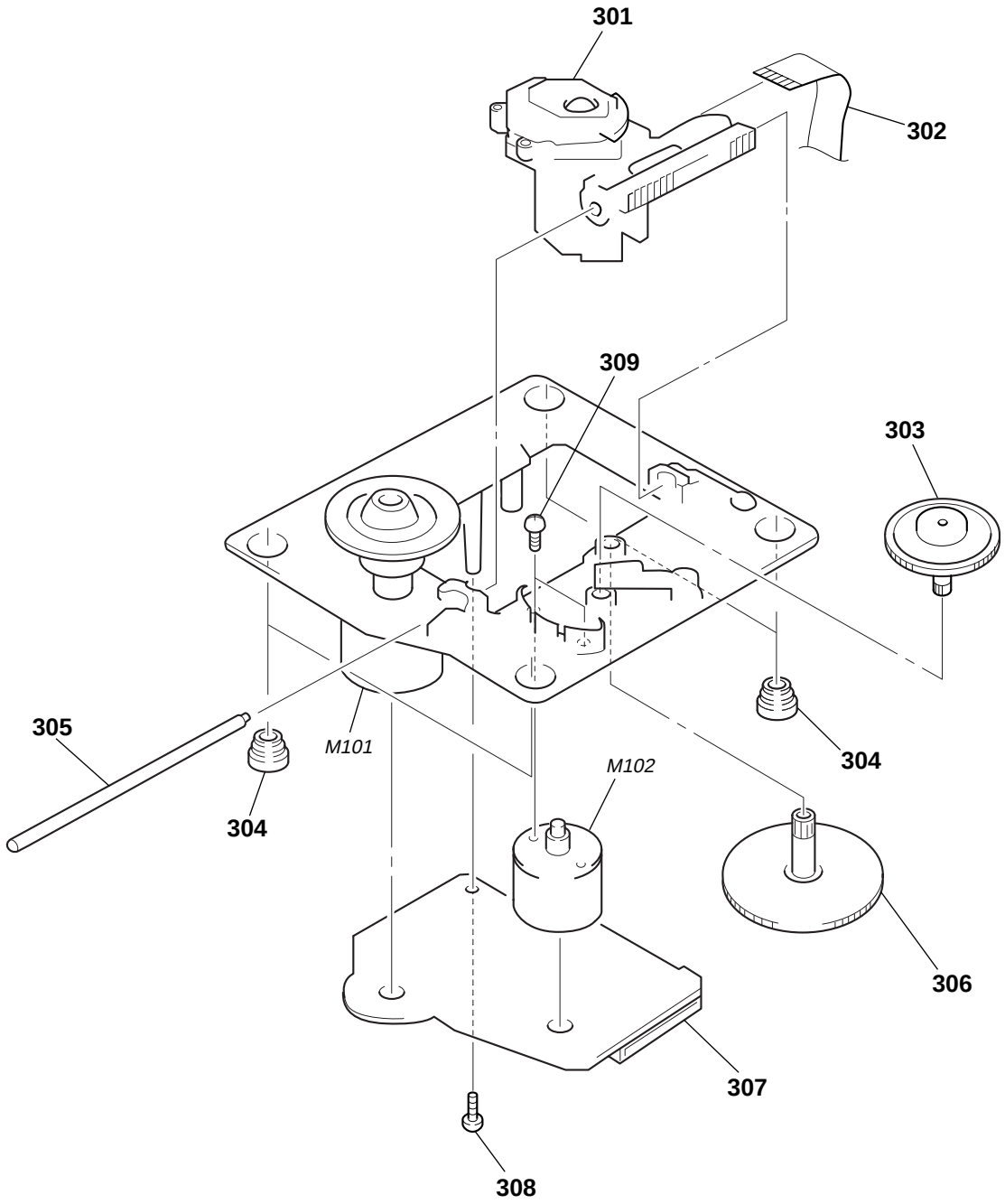
(5) CD MECHANISM DECK SECTION-2 (CDM38LH-5BD36L)



Ref. No.	Part No.	Description	Remarks
251	4-981-789-11	BRACKET (2), YOKE	
252	4-977-954-01	PULLEY (SL)	
253	4-977-953-01	GEAR (SL-A)	
254	4-977-955-01	GEAR (SL-B)	
255	4-977-942-01	BELT (SL) (1.4)	
256	X-4946-491-1	CAMASSY, BU	
257	1-452-925-21	MAGNET ASSY	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
* 259	1-658-575-11	CONNECTOR BOARD	
* 260	X-4947-846-1	CHASSIS (CDM) ASSY	
261	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	

Ref. No.	Part No.	Description	Remarks
* 262	1-658-578-11	MOTOR (SLIDE) BOARD	
263	4-982-447-01	SPRING (BU), COMPRESSION	
264	4-951-620-41	SCREW (2.6), +BVTP	
265	X-4949-570-1	HOLDER (BU) ASSY	
266	4-989-494-01	SCREW (SLIDER), STEP	
267	4-989-492-11	SLIDER (38)	
268	4-989-819-02	SPRING, TENSION	
269	4-989-491-01	COVER, LENS	
270	4-993-142-03	PULLEY (L), PRESS	
M801	A-4672-569-A	MOTOR ASSY (DISC TRAY TURN)	
S811	1-473-335-11	ENCODER, ROTARY (BU,TRAY ADDRESS DET)	

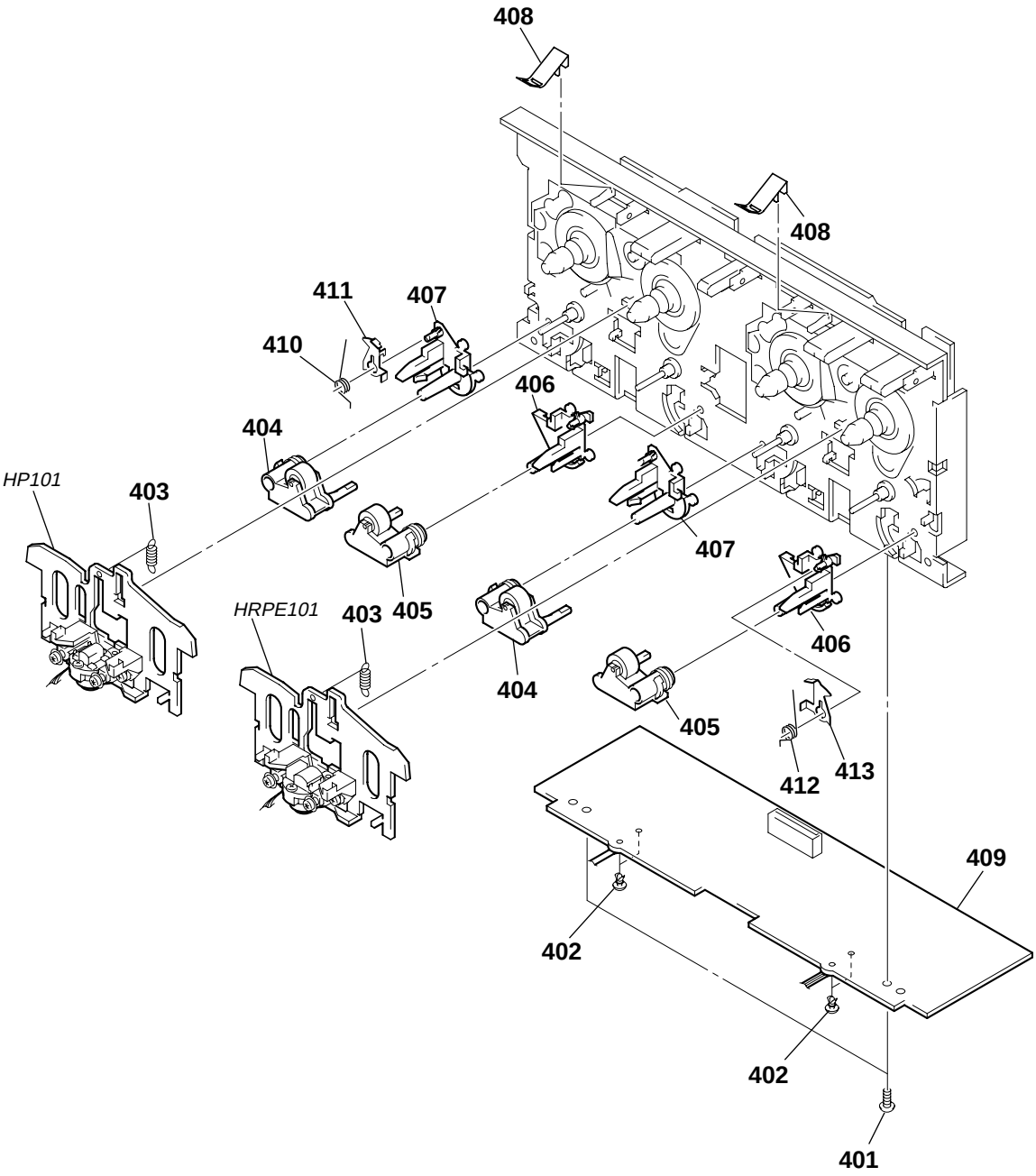
(6) BASE UNIT SECTION (BU-26BD36L)



Ref. No.	Part No.	Description	Remarks
⚠301	8-820-020-02	OPTICAL PICK-UP BLOCK KSS-213D/Q-RP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
303	4-917-567-21	GEAR (M)	
304	4-951-940-41	INSULATOR (BU)	
305	4-917-565-01	SHAFT, SLED	
306	4-917-564-01	GEAR (P), FLATNESS	
307	A-4724-925-A	BDBOARD, COMPLETE	
308	4-951-620-01	SCREW (2.6 × 8), +BVTP	
309	3-713-786-51	SCREW +P 2 × 3	
M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

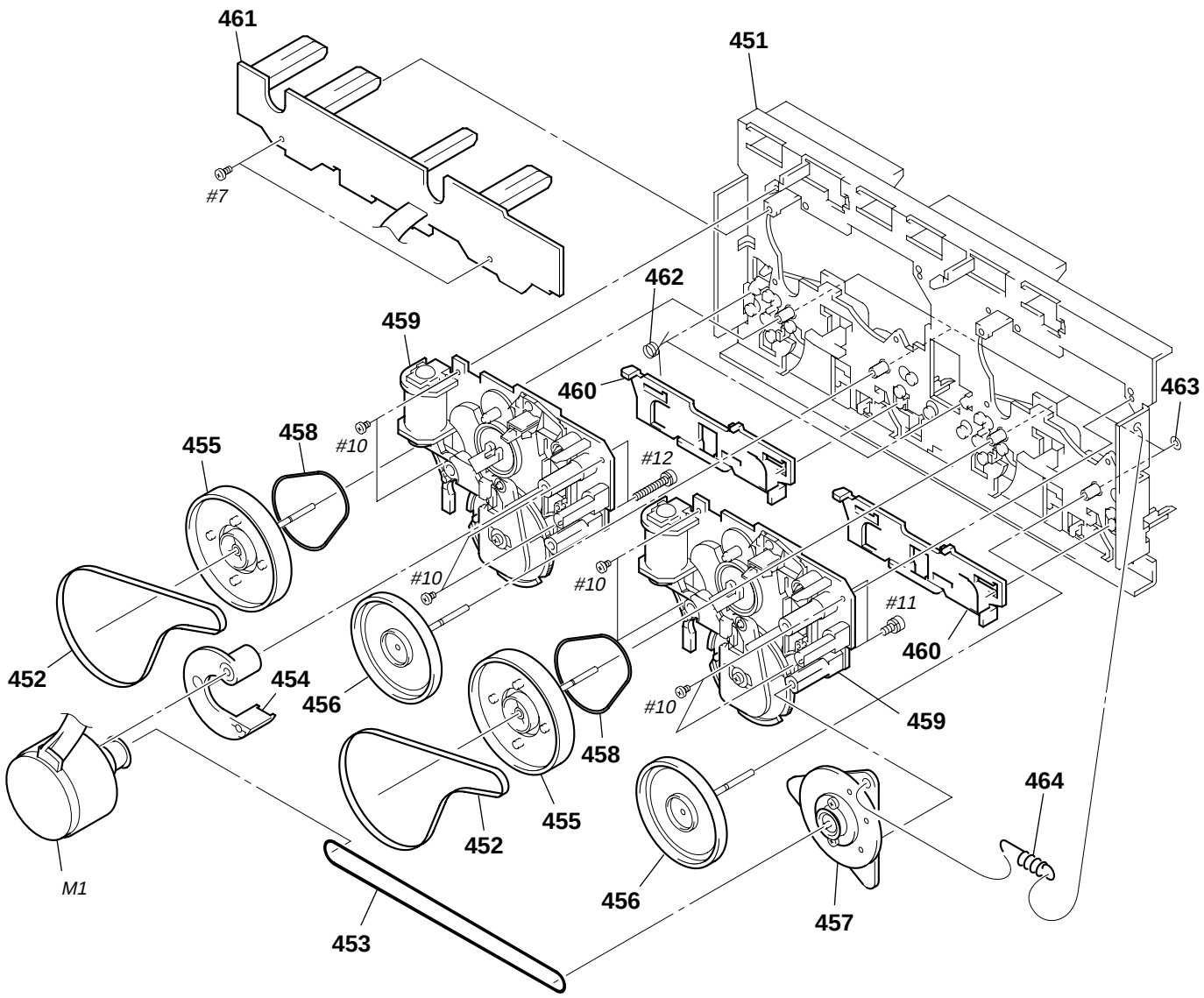
(7) TAPE MECHANISM DECK SECTION-1 (TCM-230AWR2)



Ref. No.	Part No.	Description	Remarks
401	3-376-464-11	SCREW(+PTT 2.6 × 6),GROUND POINT	
402	3-911-116-42	RIVET, PUSH	
403	3-016-574-11	SPRING (HEAD), TENSION	
404	X-3374-156-4	PINCH LEVER (REV) ASSY	
405	X-3374-155-4	PINCH LEVER (FWD) ASSY	
406	3-016-564-01	BASE (PINCH LEVER FWD)	
407	3-016-565-01	BASE (PINCH LEVER REV)	
408	3-026-892-01	SPRING (CASSETTE), LEAF	

Ref. No.	Part No.	Description	Remarks
409	A-2007-731-A	AUDIO BOARD, COMPLETE	
410	3-032-809-02	SPRING (L), TORSION	
411	3-016-572-01	LEVER (EJECT PREVENTION L)	
412	3-032-810-02	SPRING (R), TORSION	
413	3-016-573-03	LEVER (EJECT PREVENTION R)	
HP101	A-2056-681-B	DECK (A) ASSY, HEAD	
HRPE101	A-2056-682-B	DECK (B) ASSY, HEAD	

(8) TAPE MECHANISM DECK SECTION-2 (TCM-230AWR2)



Ref. No.	Part No.	Description	Remarks
* 451	X-3374-214-4	CHASSIS ASSY, MAIN	
452	3-016-570-01	BELT (CAPSTAN)	
453	3-016-569-01	BELT (TENSION)	
454	3-017-360-01	BRACKET (MOTOR)	
455	X-3376-497-3	FLYWHEEL (FWD) ASSY	
456	X-3374-235-1	FLYWHEEL (REV) ASSY	
457	X-3374-238-1	PULLEY ASSY, TENSION	
458	3-024-405-01	BELT (FR2)	
459	A-2004-629-A	MECHANICAL BLOCK ASSY	
460	3-016-566-01	SLIDER, REVERSE	
461	A-2007-732-A	LEAF (SW) BOARD, COMPLETE	
462	3-016-575-11	SPRING, TORSION	
463	3-019-208-01	WASHER, STOPPER	
464	3-027-453-01	SPRING (GROUND), TENSION	
465	3-030-823-01	SCREW (+BVTT) (2 × 3.5)	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	

AUDIO

SECTION 9
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description				Remarks
	A-2007-731-A	AUDIO BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C301	1-162-289-31	CERAMIC	390PF	10%	50V	
C302	1-126-968-11	ELECT	100uF	20%	6.3V	
C303	1-162-282-31	CERAMIC	100PF	10%	50V	
C304	1-130-483-00	MYLAR	0.01uF	5%	50V	
C305	1-107-715-11	ELECT	22uF	20%	16V	
C311	1-162-289-31	CERAMIC	390PF	10%	50V	
C313	1-162-282-31	CERAMIC	100PF	10%	50V	
C314	1-130-487-00	MYLAR	0.022uF	5%	50V	
C315	1-126-233-11	ELECT	22uF	20%	50V	
C331	1-137-427-11	MYLAR	120PF	5%	50V	
C332	1-162-288-31	CERAMIC	330PF	10%	50V	
C333	1-162-209-31	CERAMIC	27PF	5%	50V	
C401	1-162-289-31	CERAMIC	390PF	10%	50V	
C402	1-126-968-11	ELECT	100uF	20%	6.3V	
C403	1-162-282-31	CERAMIC	100PF	10%	50V	
C404	1-130-483-00	MYLAR	0.01uF	5%	50V	
C405	1-107-715-11	ELECT	22uF	20%	16V	
C411	1-162-289-31	CERAMIC	390PF	10%	50V	
C413	1-162-282-31	CERAMIC	100PF	10%	50V	
C414	1-130-487-00	MYLAR	0.022uF	5%	50V	
C415	1-126-233-11	ELECT	22uF	20%	50V	
C431	1-137-427-11	MYLAR	120PF	5%	50V	
C432	1-162-288-31	CERAMIC	330PF	10%	50V	
C433	1-162-209-31	CERAMIC	27PF	5%	50V	
C601	1-104-396-11	ELECT	10uF	20%	16V	
C602	1-104-396-11	ELECT	10uF	20%	16V	
C611	1-104-396-11	ELECT	10uF	20%	16V	
C612	1-104-396-11	ELECT	10uF	20%	16V	
C621	1-137-150-11	FILM	0.01uF	5%	100V	
C622	1-126-961-11	ELECT	2.2uF	20%	50V	
C623	1-136-155-00	FILM	0.015uF	5%	50V	
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V	
C627	1-124-903-11	ELECT	1uF	20%	50V	
C628	1-136-153-00	FILM	0.01uF	5%	50V	
C642	1-104-664-11	ELECT	47uF	20%	16V	
		< CONNECTOR >				
CN601	1-568-834-11	SOCKET, CONNECTOR 15P				
		< IC >				
IC601	8-759-111-44	IC uPC4570C-1				
IC602	8-759-143-54	IC uPC1330HA				
IC611	8-759-111-44	IC uPC4570C-1				

Ref. No.	Part No.	Description				Remarks
		< COIL >				
L331	1-410-780-11	INDUCTOR 27mH				
L431	1-410-780-11	INDUCTOR 27mH				
L601	1-414-193-41	INDUCTOR 220uH				
L602	1-414-193-41	INDUCTOR 220uH				
		< TRANSISTOR >				
Q621	8-729-142-46	TRANSISTOR 2SC2001-LK				
Q622	8-729-142-46	TRANSISTOR 2SC2001-LK				
Q623	8-729-801-93	TRANSISTOR 2SD1387-3				
		< RESISTOR >				
R301	1-247-881-00	CARBON	120K	5%	1/4W	
R302	1-249-409-11	CARBON	220	5%	1/4W	F
R303	1-249-433-11	CARBON	22K	5%	1/4W	
R304	1-247-889-00	CARBON	270K	5%	1/4W	
R305	1-247-858-11	CARBON	13K	5%	1/4W	
R311	1-247-881-00	CARBON	120K	5%	1/4W	
R312	1-247-807-31	CARBON	100	5%	1/4W	
R314	1-247-882-11	CARBON	130K	5%	1/4W	
R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
R331	1-249-430-11	CARBON	12K	5%	1/4W	
R401	1-247-881-00	CARBON	120K	5%	1/4W	
R402	1-249-409-11	CARBON	220	5%	1/4W	F
R403	1-249-433-11	CARBON	22K	5%	1/4W	
R404	1-247-889-00	CARBON	270K	5%	1/4W	
R405	1-247-858-11	CARBON	13K	5%	1/4W	
R411	1-247-881-00	CARBON	120K	5%	1/4W	
R412	1-247-807-31	CARBON	100	5%	1/4W	
R414	1-247-882-11	CARBON	130K	5%	1/4W	
R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
R431	1-249-430-11	CARBON	12K	5%	1/4W	
R601	1-249-409-11	CARBON	220	5%	1/4W	F
R602	1-249-409-11	CARBON	220	5%	1/4W	F
R608	1-249-409-11	CARBON	220	5%	1/4W	F
R609	1-249-433-11	CARBON	22K	5%	1/4W	
R611	1-249-409-11	CARBON	220	5%	1/4W	F
R612	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
R623	1-249-432-11	CARBON	18K	5%	1/4W	
R624	1-249-432-11	CARBON	18K	5%	1/4W	
R625	1-249-429-11	CARBON	10K	5%	1/4W	

Ref. No.	Part No.	Description			Remarks
		< VARIABLE RESISTOR >			
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV341	1-241-768-11	RES, ADJ, CARBON 220K			
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV441	1-241-768-11	RES, ADJ, CARBON 220K			
		< TRANSFORMER >			
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			
**********					
	A-4724-925-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C105	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-164-346-11	CERAMIC CHIP	1uF		16V
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C109	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C110	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V
C118	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C119	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C120	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C121	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C122	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C123	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C124	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C126	1-124-779-00	ELECT CHIP	10uF	20%	16V
C130	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C140	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C141	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C152	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C154	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C159	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C161	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C162	1-117-681-11	ELECT CHIP	100uF	20%	16V
C170	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C171	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C180	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C181	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C182	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C183	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C184	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C185	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C186	1-128-065-11	ELECT CHIP	68uF	20%	10V
C187	1-163-038-91	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remarks
		< CONNECTOR >			
CN101	1-770-708-11	CONNECTOR, FFC/FPC 25P			
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P			
		< IC >			
IC101	8-752-397-42	IC CXD3008Q			
IC102	8-759-640-22	IC BA5982FM			
IC103	8-752-085-51	IC CXA2568M-T6			
IC104	8-759-398-25	IC TC7SH04F(TE85L)			
		< COIL >			
L101	1-414-234-22	INDUCTOR CHIP 0uH			
L102	1-410-377-31	INDUCTOR CHIP 4.7uH			
		< TRANSISTOR >			
Q101	8-729-049-31	TRANSISTOR 2SB710-RTX			
Q102	8-729-120-28	TRANSISTOR 2SC1623-T1-L5L6			
		< RESISTOR >			
R101	1-216-077-91	RES,CHIP	15K	5%	1/10W
R102	1-216-097-91	RES,CHIP	100K	5%	1/10W
R103	1-216-077-91	RES,CHIP	15K	5%	1/10W
R104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W
R106	1-216-049-91	RES,CHIP	1K	5%	1/10W
R107	1-216-073-00	METAL CHIP	10K	5%	1/10W
R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R109	1-216-121-91	RES,CHIP	1M	5%	1/10W
R110	1-216-295-91	SHORT 0			
R112	1-216-025-91	RES,CHIP	100	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R124	1-216-097-91	RES,CHIP	100K	5%	1/10W
R125	1-216-033-00	METAL CHIP	220	5%	1/10W
R126	1-216-033-00	METAL CHIP	220	5%	1/10W
R127	1-216-033-00	METAL CHIP	220	5%	1/10W
R131	1-216-037-00	METAL CHIP	330	5%	1/10W
R135	1-216-295-91	SHORT 0			
R136	1-216-295-91	SHORT 0			
R137	1-216-295-91	SHORT 0			
R138	1-216-295-91	SHORT 0			
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W
R145	1-216-121-91	RES,CHIP	1M	5%	1/10W
R146	1-216-121-91	RES,CHIP	1M	5%	1/10W
R147	1-216-041-00	METAL CHIP	470	5%	1/10W
R148	1-216-001-00	METAL CHIP	10	5%	1/10W
R149	1-216-003-11	RES,CHIP	12	5%	1/10W
R150	1-216-073-00	METAL CHIP	10K	5%	1/10W
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
R154	1-216-025-91	RES,CHIP	100	5%	1/10W
R155	1-216-025-91	RES,CHIP	100	5%	1/10W
R156	1-216-025-91	RES,CHIP	100	5%	1/10W
R157	1-216-025-91	RES,CHIP	100	5%	1/10W
R158	1-216-073-00	METAL CHIP	10K	5%	1/10W
R159	1-216-089-91	RES,CHIP	47K	5%	1/10W
R161	1-216-295-91	SHORT 0			
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W
R171	1-216-025-91	RES,CHIP	100	5%	1/10W
R172	1-216-025-91	RES,CHIP	100	5%	1/10W

BD CD SW CONNECTOR LEAF SW

Ref. No.	Part No.	Description			Remarks
R173	1-216-025-91	RES,CHIP	100	5%	1/10W
R175	1-216-025-91	RES,CHIP	100	5%	1/10W
R180	1-216-097-91	RES,CHIP	100K	5%	1/10W
R181	1-216-100-00	RES,CHIP	130K	5%	1/10W
R182	1-216-081-00	METAL CHIP	22K	5%	1/10W
R183	1-216-081-00	METAL CHIP	22K	5%	1/10W
R184	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R185	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R186	1-216-081-00	METAL CHIP	22K	5%	1/10W
R187	1-216-081-00	METAL CHIP	22K	5%	1/10W
R188	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R189	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R190	1-216-081-00	METAL CHIP	22K	5%	1/10W
R191	1-216-081-00	METAL CHIP	22K	5%	1/10W
R192	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R193	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R203	1-216-025-91	RES,CHIP	100	5%	1/10W
R204	1-216-025-91	RES,CHIP	100	5%	1/10W
R205	1-216-025-91	RES,CHIP	100	5%	1/10W
R206	1-216-295-91	SHORT	0		
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			

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	A-4426-760-A	CD SW BOARD, COMPLETE			
		**********			
		< DIODE >			
D751	8-719-056-13	DIODE SML79423C-TP15 (DISC1)			
D752	8-719-056-13	DIODE SML79423C-TP15 (DISC2)			
D753	8-719-056-13	DIODE SML79423C-TP15 (DISC3)			
D754	8-719-063-93	DIODE SLR325VC-N-T32 (POWER)			
		< RESISTOR >			
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-418-11	CARBON	1.2K	5%	1/4W F
R753	1-249-420-11	CARBON	1.8K	5%	1/4W F
R754	1-249-422-11	CARBON	2.7K	5%	1/4W F
R755	1-247-843-11	CARBON	3.3K	5%	1/4W
R756	1-249-425-11	CARBON	4.7K	5%	1/4W F
R757	1-249-427-11	CARBON	6.8K	5%	1/4W F
R758	1-247-804-11	CARBON	75	5%	1/4W
R759	1-249-407-11	CARBON	150	5%	1/4W F
R760	1-247-804-11	CARBON	75	5%	1/4W
R761	1-249-407-11	CARBON	150	5%	1/4W F
R762	1-247-804-11	CARBON	75	5%	1/4W
R763	1-249-407-11	CARBON	150	5%	1/4W F
R764	1-249-414-11	CARBON	560	5%	1/4W F
		< SWITCH >			
S751	1-762-875-21	SWITCH, KEYBOARD (POWER)			
S752	1-762-875-21	SWITCH, KEYBOARD ((STANDBY)DEMO)			
S753	1-762-875-21	SWITCH, KEYBOARD (DISC1)			
S754	1-762-875-21	SWITCH, KEYBOARD (DISC2)			
S755	1-762-875-21	SWITCH, KEYBOARD (DISC3)			
S756	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP EX-CHANGE)			
S757	1-762-875-21	SWITCH, KEYBOARD (EJECT)			

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Ref. No.	Part No.	Description			Remarks
*	1-658-575-11	CONNECTOR BOARD			
		**********			
		< CONNECTOR >			
* CN701	1-568-946-11	PIN, CONNECTOR 8P			
CN702	1-785-550-11	CONNECTOR, FFC/FPC 8P			
		< TRANSISTOR >			
Q701	8-729-900-80	TRANSISTOR DTC114ES			
		< RESISTOR >			
R703	1-249-435-11	CARBON	33K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W F

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	A-2007-732-A	LEAF SW BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1001	1-107-716-11	ELECT	33uF	20%	10V
		< CONNECTOR >			
CN1001	1-568-860-11	SOCKET, CONNECTOR 17P			
		< DIODE >			
D1001	8-719-911-19	DIODE 1SS119-25			
D1002	8-719-911-19	DIODE 1SS119-25			
		< HOLDER >			
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P			
		< IC >			
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264			
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264			
		< TRANSISTOR >			
Q1001	8-729-029-56	TRANSISTOR DTA144ESA-TP			
		< RESISTOR >			
R907	1-247-879-11	CARBON	100K	5%	1/4W
R1001	1-249-409-11	CARBON	220	5%	1/4W F
R1002	1-249-409-11	CARBON	220	5%	1/4W F
R1003	1-249-414-11	CARBON	560	5%	1/4W F
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
R1006	1-247-864-11	CARBON	24K	5%	1/4W
R1007	1-247-856-00	CARBON	11K	5%	1/4W
R1008	1-249-417-11	CARBON	1K	5%	1/4W F
		< VARIABLE RESISTOR >			
RV1001	1-241-785-11	RES, ADJ, CARBON 10K			
RV1002	1-241-785-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S1001	1-570-953-11	SWITCH, PUSH (1 KEY)(DECK A PLAY)			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY)(DECK B PLAY)			
S1003	1-771-333-11	SWITCH, LEAF (DECK A HALF)			
S1004	1-771-205-11	SWITCH, LEAF (DECK A 120/70)			
S1005	1-771-205-11	SWITCH, LEAF (DECK A REC)			

Ref. No.	Part No.	Description			Remarks
S1006	1-771-333-11	SWITCH, LEAF (DECK B HALF)			
S1008	1-771-205-11	SWITCH, LEAF (DECK B 120/70)			
S1009	1-771-205-11	SWITCH, LEAF (DECK B REC)			
**********					
	A-4426-767-A	MAIN BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +BVTP 3×8 TYPE2 N-S			
		< CAPACITOR >			
C101	1-162-286-31	CERAMIC	220PF	10%	50V
C102	1-162-286-31	CERAMIC	220PF	10%	50V
C103	1-162-286-31	CERAMIC	220PF	10%	50V
C104	1-164-159-11	CERAMIC	0.1uF		50V
C111	1-137-195-11	MYLAR	0.56uF	5%	50V
C112	1-136-158-00	MYLAR	0.027uF	5%	50V
C115	1-136-159-00	MYLAR	0.033uF	5%	50V
C116	1-130-473-00	MYLAR	0.0015uF	5%	50V
C119	1-130-479-00	MYLAR	0.0047uF	5%	50V
C120	1-130-477-00	MYLAR	0.0033uF	5%	50V
C121	1-126-964-11	ELECT	10uF	20%	50V
C122	1-162-291-31	CERAMIC	560PF	10%	50V
C123	1-136-169-00	MYLAR	0.22uF	5%	50V
C124	1-136-169-00	MYLAR	0.22uF	5%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C131	1-104-664-11	ELECT	47uF	20%	16V
C132	1-104-664-11	ELECT	47uF	20%	16V
C135	1-126-964-11	ELECT	10uF	20%	50V
C141	1-126-959-11	ELECT	0.47uF	20%	50V
C151	1-162-286-31	CERAMIC	220PF	10%	50V
C152	1-162-286-31	CERAMIC	220PF	10%	50V
C153	1-162-286-31	CERAMIC	220PF	10%	50V
C161	1-137-195-11	MYLAR	0.56uF	5%	50V
C162	1-136-158-00	MYLAR	0.027uF	5%	50V
C165	1-136-159-00	MYLAR	0.033uF	5%	50V
C166	1-130-473-00	MYLAR	0.0015uF	5%	50V
C169	1-130-479-00	MYLAR	0.0047uF	5%	50V
C170	1-130-477-00	MYLAR	0.0033uF	5%	50V
C171	1-126-964-11	ELECT	10uF	20%	50V
C172	1-162-291-31	CERAMIC	560PF	10%	50V
C173	1-136-169-00	MYLAR	0.22uF	5%	50V
C174	1-136-169-00	MYLAR	0.22uF	5%	50V
C175	1-126-964-11	ELECT	10uF	20%	50V
C176	1-136-495-11	MYLAR	0.068uF	5%	50V
C177	1-136-153-00	FILM	0.01uF	5%	50V
C193	1-126-964-11	ELECT	10uF	20%	50V
C197	1-164-159-11	CERAMIC	0.1uF		50V
C301	1-126-960-11	ELECT	1uF	20%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
C303	1-136-165-00	MYLAR	0.1uF	5%	50V
C304	1-136-165-00	MYLAR	0.1uF	5%	50V
C305	1-126-964-11	ELECT	10uF	20%	50V
C306	1-126-960-11	ELECT	1uF	20%	50V
C307	1-126-959-11	ELECT	0.47uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-137-194-81	MYLAR	0.47uF	5%	50V
C310	1-162-290-31	CERAMIC	470PF	10%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V
C313	1-162-294-31	CERAMIC	0.001uF	10%	50V

Ref. No.	Part No.	Description			Remarks
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-104-665-11	ELECT	100uF	20%	10V
C317	1-104-665-11	ELECT	100uF	20%	10V
C320	1-162-290-31	CERAMIC	470PF	10%	50V
C333	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C334	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C351	1-126-960-11	ELECT	1uF	20%	50V
C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C353	1-136-165-00	MYLAR	0.1uF	5%	50V
C354	1-136-165-00	MYLAR	0.1uF	5%	50V
C355	1-126-964-11	ELECT	10uF	20%	50V
C356	1-126-960-11	ELECT	1uF	20%	50V
C357	1-126-959-11	ELECT	0.47uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-137-194-81	MYLAR	0.47uF	5%	50V
C382	1-104-665-11	ELECT	100uF	20%	10V
C390	1-104-656-11	ELECT	2200uF	20%	6.3V
C391	1-161-494-00	CERAMIC	0.022uF		25V
C392	1-126-916-11	ELECT	1000uF	20%	6.3V
C393	1-161-494-00	CERAMIC	0.022uF		25V
C394	1-126-925-11	ELECT	470uF	20%	10V
C396	1-126-961-11	ELECT	2.2uF	20%	50V
C397	1-126-961-11	ELECT	2.2uF	20%	50V
C401	1-136-165-00	MYLAR	0.1uF	5%	50V
C402	1-136-165-00	MYLAR	0.1uF	5%	50V
C403	1-162-306-11	CERAMIC	0.01uF	30%	16V
C404	1-162-306-11	CERAMIC	0.01uF	30%	16V
C410	1-126-963-11	ELECT	4.7uF	20%	50V
C411	1-162-306-11	CERAMIC	0.01uF	30%	16V
C412	1-107-717-11	ELECT	47uF	20%	50V
C421	1-107-721-11	ELECT	4.7uF	20%	100V
C432	1-104-665-11	ELECT	100uF	20%	10V
C433	1-126-961-11	ELECT	2.2uF	20%	50V
C437	1-126-968-11	ELECT	100uF	20%	50V
C451	1-136-165-00	MYLAR	0.1uF	5%	50V
C452	1-136-165-00	MYLAR	0.1uF	5%	50V
C453	1-162-306-11	CERAMIC	0.01uF	30%	16V
C454	1-162-306-11	CERAMIC	0.01uF	30%	16V
C471	1-107-721-11	ELECT	4.7uF	20%	100V
C501	1-126-964-11	ELECT	10uF	20%	50V
C502	1-164-159-11	CERAMIC	0.1uF		50V
C503	1-136-165-00	MYLAR	0.1uF	5%	50V
C504	1-126-926-11	ELECT	1000uF	20%	10V
C508	1-109-889-11	ELECT	1uF	20%	50V
C610	1-102-953-00	CERAMIC	18PF	5%	50V
C611	1-102-951-00	CERAMIC	15PF	5%	50V
C614	1-162-306-11	CERAMIC	0.01uF	30%	16V
C616	1-104-665-11	ELECT	100uF	20%	10V
C662	1-162-306-11	CERAMIC	0.01uF	30%	16V
C664	1-104-665-11	ELECT	100uF	20%	10V
C698	1-162-306-11	CERAMIC	0.01uF	30%	16V
C699	1-104-665-11	ELECT	100uF	20%	10V
C801	1-126-963-11	ELECT	4.7uF	20%	50V
C802	1-162-290-31	CERAMIC	470PF	10%	50V
C803	1-162-282-31	CERAMIC	100PF	10%	50V
C804	1-104-665-11	ELECT	100uF	20%	10V
C807	1-136-495-11	MYLAR	0.068uF	5%	50V
C808	1-136-495-11	MYLAR	0.068uF	5%	50V
C809	1-128-560-11	ELECT	22uF	20%	100V

MAIN

Ref. No.	Part No.	Description			Remarks
C810	1-128-578-11	ELECT	1uF	20%	100V
C811	1-162-306-11	CERAMIC	0.01uF	30%	16V
C812	1-162-306-11	CERAMIC	0.01uF	30%	16V
C841	1-127-751-11	ELECT	3300uF	20%	50V
C842	1-127-754-11	ELECT	3300uF	20%	80V
C843	1-136-165-00	MYLAR	0.1uF	5%	50V
C844	1-130-777-00	MYLAR	0.1uF	10%	100V
C851	1-126-963-11	ELECT	4.7uF	20%	50V
C852	1-162-290-31	CERAMIC	470PF	10%	50V
C853	1-162-282-31	CERAMIC	100PF	10%	50V
C854	1-104-665-11	ELECT	100uF	20%	10V
C857	1-136-495-11	MYLAR	0.068uF	5%	50V
C858	1-136-495-11	MYLAR	0.068uF	5%	50V
C859	1-128-560-11	ELECT	22uF	20%	100V
C881	1-126-967-11	ELECT	47uF	20%	50V
C891	1-127-751-11	ELECT	3300uF	20%	50V
C892	1-127-754-11	ELECT	3300uF	20%	80V
C893	1-136-165-00	MYLAR	0.1uF	5%	50V
C894	1-130-777-00	MYLAR	0.1uF	10%	100V
C901	1-136-165-00	MYLAR	0.1uF	5%	50V
C902	1-126-939-11	ELECT	10000uF	20%	16V
C903	1-126-933-11	ELECT	100uF	20%	16V
C904	1-104-664-11	ELECT	47uF	20%	16V
C905	1-104-665-11	ELECT	100uF	20%	10V
C906	1-136-165-00	MYLAR	0.1uF	5%	50V
C907	1-128-548-11	ELECT	4700uF	20%	25V
C909	1-126-964-11	ELECT	10uF	20%	50V
C910	1-104-665-11	ELECT	100uF	20%	10V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-126-926-11	ELECT	1000uF	20%	10V
C913	1-126-964-11	ELECT	10uF	20%	50V
C914	1-126-767-11	ELECT	1000uF	20%	16V
C915	1-104-664-11	ELECT	47uF	20%	16V
C916	1-162-306-11	CERAMIC	0.01uF	30%	16V
C917	1-126-933-11	ELECT	100uF	20%	16V
C921	1-104-656-11	ELECT	2200uF	20%	6.3V
C922	1-126-964-11	ELECT	10uF	20%	50V
C923	1-126-916-11	ELECT	1000uF	20%	6.3V
C951	1-136-165-00	MYLAR	0.1uF	5%	50V
C952	1-126-768-11	ELECT	2200uF	20%	16V
C953	1-126-933-11	ELECT	100uF	20%	16V
C955	1-104-665-11	ELECT	100uF	20%	10V
C956	1-136-165-00	MYLAR	0.1uF	5%	50V

< CONNECTOR >

CN303	1-784-776-11	CONNECTOR, FFC 15P
CN304	1-784-778-11	CONNECTOR, FFC 17P
CN371	1-784-776-11	CONNECTOR, FFC 15P
CN391	1-750-747-11	CONNECTOR, FFC/FPC 15P
CN392	1-785-334-11	PIN, CONNECTOR (LIGHT ANGLE)8P
CN393	1-785-335-11	PIN, CONNECTOR (LIGHT ANGLE)9P
* CN403	1-564-518-11	PLUG, CONNECTOR 3P
CN501	1-784-784-11	CONNECTOR, FFC 23P

< DIODE >

D141	8-719-911-19	DIODE 1SS119-25
D191	8-719-911-19	DIODE 1SS119-25
D331	8-719-911-19	DIODE 1SS119-25
D333	8-719-911-19	DIODE 1SS119-25
D334	8-719-911-19	DIODE 1SS119-25
D335	8-719-911-19	DIODE 1SS119-25
D401	8-719-911-19	DIODE 1SS119-25
D403	8-719-911-19	DIODE 1SS119-25
D405	8-719-024-99	DIODE 11ES2-NTA2B
D406	8-719-024-99	DIODE 11ES2-NTA2B
D407	8-719-024-99	DIODE 11ES2-NTA2B
D411	8-719-911-19	DIODE 1SS119-25
D501	8-719-024-99	DIODE 11ES2-NTA2B
D502	8-719-911-19	DIODE 1SS119-25
D503	8-719-911-19	DIODE 1SS119-25
D504	8-719-911-19	DIODE 1SS119-25
D505	8-719-911-19	DIODE 1SS119-25
D506	8-719-911-19	DIODE 1SS119-25
D507	8-719-024-99	DIODE 11ES2-NTA2B
D509	8-719-911-19	DIODE 1SS119-25
D607	8-719-911-19	DIODE 1SS119-25
D644	8-719-911-19	DIODE 1SS119-25
D801	8-719-911-19	DIODE 1SS119-25
D802	8-719-160-65	DIODE RD16FB2
D803	8-719-911-19	DIODE 1SS119-25
D831	8-719-302-38	DIODE RBV-602-01
D832	8-719-302-38	DIODE RBV-602-01
D851	8-719-911-19	DIODE 1SS119-25
D852	8-719-160-65	DIODE RD16FB2
D881	8-719-911-19	DIODE 1SS119-25
D901	8-719-975-85	DIODE ERB83-004
D902	8-719-975-85	DIODE ERB83-004
D903	8-719-975-85	DIODE ERB83-004
D904	8-719-975-85	DIODE ERB83-004
D905	8-719-933-36	DIODE HZS6B1L
D906	8-719-911-19	DIODE 1SS119-25
D907	8-719-024-99	DIODE 11ES2-NTA2B
D908	8-719-024-99	DIODE 11ES2-NTA2B
D909	8-719-024-99	DIODE 11ES2-NTA2B
D910	8-719-024-99	DIODE 11ES2-NTA2B
D915	8-719-935-69	DIODE HZS11B1LTD
D917	8-719-911-19	DIODE 1SS119-25
D921	8-719-911-19	DIODE 1SS119-25
D922	8-719-911-19	DIODE 1SS119-25
D923	8-719-911-19	DIODE 1SS119-25
D924	8-719-024-99	DIODE 11ES2-NTA2B
D3001	8-719-024-99	DIODE 11ES2-NTA2B
D3002	8-719-024-99	DIODE 11ES2-NTA2B

< FERRITE BEAD >

FB391	1-412-473-21	INDUCTOR 0UH
FB392	1-412-473-21	INDUCTOR 0UH

< IC >

IC101	8-759-571-55	IC M62493FP-A
IC301	8-759-495-26	IC HA12215F
IC381	8-749-923-04	IC TOTX178A (CD DIGITAL OUT OPTICAL)
IC501	8-759-639-96	IC M30622MA-A16FP
IC502	8-759-635-63	IC M51943BSL
IC801	8-749-015-37	IC STK411-240E
IC901	8-759-604-86	IC M5F7807L
IC902	8-759-231-53	IC TA7805L
IC903	8-759-088-08	IC uPC7812AHF
IC904	8-759-231-53	IC TA7805S

Ref. No.	Part No.	Description	Remarks
		< JACK >	
J101	1-774-411-11	JACK, PIN 6P (VIDE(AUDIO)IN,MD OPTICAL)	
J191	1-774-785-11	JACK, PIN 1P (SUPER WOOFER)	
		< COIL >	
L381	1-410-521-11	INDUCTOR 100uH	
L392	1-410-521-11	INDUCTOR 100uH	
L501	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q111	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q113	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q161	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q162	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q163	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q191	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q192	8-729-900-63	TRANSISTOR DTA124ES	
Q201	8-729-900-36	TRANSISTOR DTC124ES	
Q251	8-729-900-36	TRANSISTOR DTC124ES	
Q331	8-729-118-00	TRANSISTOR 2SB1116-L	
Q332	8-729-900-80	TRANSISTOR DTC114ES	
Q333	8-729-118-00	TRANSISTOR 2SB1116-L	
Q334	8-729-900-80	TRANSISTOR DTC114ES	
Q335	8-729-900-80	TRANSISTOR DTC114ES	
Q336	8-729-116-59	TRANSISTOR 2SB1068TP	
Q337	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
Q338	8-729-422-57	TRANSISTOR UN4111	
Q339	8-729-900-80	TRANSISTOR DTC114ES	
Q340	8-729-116-59	TRANSISTOR 2SB1068TP	
Q341	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
Q342	8-729-422-57	TRANSISTOR UN4111	
Q343	8-729-900-80	TRANSISTOR DTC114ES	
Q401	8-729-119-77	TRANSISTOR 2SA1175-FEK	
Q402	8-729-111-29	TRANSISTOR 2SD1616A-K	
Q411	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q412	8-729-900-63	TRANSISTOR DTA124ES	
Q431	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q432	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q433	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q434	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q435	8-729-900-36	TRANSISTOR DTC124ES	
Q436	8-729-119-77	TRANSISTOR 2SA1175-FEK	
Q437	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q439	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q471	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q508	8-729-900-63	TRANSISTOR DTA124ES	
Q509	8-729-900-63	TRANSISTOR DTA124ES	
Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q803	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q804	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q831	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q832	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q881	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q901	8-729-209-15	TRANSISTOR 2SD2012	
Q902	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q903	8-729-900-36	TRANSISTOR DTC124ES	
Q904	8-729-900-36	TRANSISTOR DTC124ES	
Q905	8-729-040-20	TRANSISTOR RT1P137L-TP	
Q909	8-729-026-68	TRANSISTOR 2SD2525(TP)	
Q911	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q912	8-729-900-36	TRANSISTOR DTC124ES	
Q913	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q914	8-729-119-77	TRANSISTOR 2SA1175-FEK	
Q923	8-729-900-36	TRANSISTOR DTC124ES	
Q951	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q952	8-729-119-77	TRANSISTOR 2SA1175-FEK	

< RESISTOR >

Ref. No.	Part No.	Description			Remarks
R101	1-249-417-11	CARBON	1K	5%	1/4W F
R102	1-249-417-11	CARBON	1K	5%	1/4W F
R103	1-249-417-11	CARBON	1K	5%	1/4W F
R111	1-249-429-11	CARBON	10K	5%	1/4W
R112	1-247-895-00	CARBON	470K	5%	1/4W
R113	1-247-894-11	CARBON	430K	5%	1/4W
R114	1-249-415-11	CARBON	680	5%	1/4W F
R115	1-249-433-11	CARBON	22K	5%	1/4W
R116	1-247-887-00	CARBON	220K	5%	1/4W
R117	1-249-429-11	CARBON	10K	5%	1/4W
R118	1-249-437-11	CARBON	47K	5%	1/4W
R119	1-249-421-11	CARBON	2.2K	5%	1/4W F
R120	1-249-441-11	CARBON	100K	5%	1/4W
R121	1-249-429-11	CARBON	10K	5%	1/4W
R124	1-249-421-11	CARBON	2.2K	5%	1/4W F
R125	1-247-843-11	CARBON	3.3K	5%	1/4W
R126	1-249-421-11	CARBON	2.2K	5%	1/4W F
R130	1-249-433-11	CARBON	22K	5%	1/4W
R131	1-247-807-31	CARBON	100	5%	1/4W
R132	1-247-807-31	CARBON	100	5%	1/4W
R133	1-247-807-31	CARBON	100	5%	1/4W
R141	1-249-433-11	CARBON	22K	5%	1/4W
R142	1-249-433-11	CARBON	22K	5%	1/4W
R143	1-249-417-11	CARBON	1K	5%	1/4W F
R144	1-249-441-11	CARBON	100K	5%	1/4W
R145	1-247-903-00	CARBON	1M	5%	1/4W
R151	1-249-417-11	CARBON	1K	5%	1/4W F
R152	1-249-417-11	CARBON	1K	5%	1/4W F
R153	1-249-417-11	CARBON	1K	5%	1/4W F
R161	1-249-429-11	CARBON	10K	5%	1/4W
R162	1-247-895-00	CARBON	470K	5%	1/4W
R163	1-247-894-11	CARBON	430K	5%	1/4W
R164	1-249-415-11	CARBON	680	5%	1/4W F
R165	1-249-433-11	CARBON	22K	5%	1/4W
R166	1-247-887-00	CARBON	220K	5%	1/4W
R167	1-249-429-11	CARBON	10K	5%	1/4W
R168	1-249-437-11	CARBON	47K	5%	1/4W
R169	1-249-421-11	CARBON	2.2K	5%	1/4W F
R170	1-249-441-11	CARBON	100K	5%	1/4W
R171	1-249-429-11	CARBON	10K	5%	1/4W
R178	1-249-421-11	CARBON	2.2K	5%	1/4W F
R190	1-249-441-11	CARBON	100K	5%	1/4W
R196	1-249-417-11	CARBON	1K	5%	1/4W F
R197	1-249-441-11	CARBON	100K	5%	1/4W
R198	1-249-417-11	CARBON	1K	5%	1/4W F
R199	1-249-429-11	CARBON	10K	5%	1/4W
R201	1-247-888-11	CARBON	240K	5%	1/4W
R202	1-247-903-00	CARBON	1M	5%	1/4W
R211	1-249-441-11	CARBON	100K	5%	1/4W
R212	1-249-441-11	CARBON	100K	5%	1/4W

MAIN

Ref. No.	Part No.	Description			Remarks
R251	1-247-888-11	CARBON	240K	5%	1/4W
R252	1-247-903-00	CARBON	1M	5%	1/4W
R261	1-249-441-11	CARBON	100K	5%	1/4W
R262	1-249-441-11	CARBON	100K	5%	1/4W
R301	1-249-435-11	CARBON	33K	5%	1/4W
R302	1-249-421-11	CARBON	2.2K	5%	1/4W F
R303	1-247-807-31	CARBON	100	5%	1/4W
R304	1-247-807-31	CARBON	100	5%	1/4W
R305	1-249-421-11	CARBON	2.2K	5%	1/4W F
R306	1-249-428-11	CARBON	8.2K	5%	1/4W F
R307	1-249-428-11	CARBON	8.2K	5%	1/4W F
R308	1-249-425-11	CARBON	4.7K	5%	1/4W F
R309	1-249-433-11	CARBON	22K	5%	1/4W
R311	1-247-903-00	CARBON	1M	5%	1/4W
R312	1-247-884-11	CARBON	160K	5%	1/4W
R313	1-249-441-11	CARBON	100K	5%	1/4W
R315	1-249-429-11	CARBON	10K	5%	1/4W
R316	1-249-432-11	CARBON	18K	5%	1/4W
R317	1-249-429-11	CARBON	10K	5%	1/4W
R318	1-249-429-11	CARBON	10K	5%	1/4W
R319	1-247-893-11	CARBON	390K	5%	1/4W
R321	1-249-422-11	CARBON	2.7K	5%	1/4W F
R322	1-249-428-11	CARBON	8.2K	5%	1/4W F
R324	1-247-876-11	CARBON	75K	5%	1/4W
R325	1-247-876-11	CARBON	75K	5%	1/4W
R326	1-249-437-11	CARBON	47K	5%	1/4W
R327	1-249-437-11	CARBON	47K	5%	1/4W
R328	1-249-437-11	CARBON	47K	5%	1/4W
R329	1-249-417-11	CARBON	1K	5%	1/4W F
R330	1-249-425-11	CARBON	4.7K	5%	1/4W F
R331	1-249-425-11	CARBON	4.7K	5%	1/4W F
R332	1-249-415-11	CARBON	680	5%	1/4W F
R333	1-249-421-11	CARBON	2.2K	5%	1/4W F
R334	1-249-415-11	CARBON	680	5%	1/4W F
R335	1-249-421-11	CARBON	2.2K	5%	1/4W F
R336	1-249-437-11	CARBON	47K	5%	1/4W
R337	1-249-417-11	CARBON	1K	5%	1/4W F
R338	1-249-411-11	CARBON	330	5%	1/4W
R339	1-249-437-11	CARBON	47K	5%	1/4W
R340	1-249-437-11	CARBON	47K	5%	1/4W
R341	1-249-411-11	CARBON	330	5%	1/4W
R342	1-249-437-11	CARBON	47K	5%	1/4W
R343	1-249-417-11	CARBON	1K	5%	1/4W F
R351	1-249-435-11	CARBON	33K	5%	1/4W
R352	1-249-421-11	CARBON	2.2K	5%	1/4W F
R353	1-247-807-31	CARBON	100	5%	1/4W
R354	1-247-807-31	CARBON	100	5%	1/4W
R355	1-249-421-11	CARBON	2.2K	5%	1/4W F
R356	1-249-428-11	CARBON	8.2K	5%	1/4W F
R357	1-249-428-11	CARBON	8.2K	5%	1/4W F
R358	1-249-425-11	CARBON	4.7K	5%	1/4W F
R359	1-249-435-11	CARBON	33K	5%	1/4W
R391	1-249-422-11	CARBON	2.7K	5%	1/4W F
R392	1-249-422-11	CARBON	2.7K	5%	1/4W F
R393	1-249-426-11	CARBON	5.6K	5%	1/4W
R394	1-249-426-11	CARBON	5.6K	5%	1/4W
R395	1-249-435-11	CARBON	33K	5%	1/4W
R401	1-260-076-11	CARBON	10	5%	1/2W
R402	1-260-076-11	CARBON	10	5%	1/2W
R406	1-249-437-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R407	1-249-437-11	CARBON	47K	5%	1/4W
R408	1-249-437-11	CARBON	47K	5%	1/4W F
R409	1-249-430-11	CARBON	12K	5%	1/4W
R410	1-249-421-11	CARBON	2.2K	5%	1/4W F
⚠R411	1-215-894-11	METAL OXIDE	2.2K	5%	2W F
R413	1-249-402-11	CARBON	56	5%	1/4W F
R414	1-249-417-11	CARBON	1K	5%	1/4W F
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-437-11	CARBON	47K	5%	1/4W
R417	1-249-417-11	CARBON	1K	5%	1/4W F
R421	1-260-089-11	CARBON	150	5%	1/2W
R422	1-260-089-11	CARBON	150	5%	1/2W
R431	1-249-438-11	CARBON	56K	5%	1/4W
R432	1-249-437-11	CARBON	47K	5%	1/4W
R434	1-249-433-11	CARBON	22K	5%	1/4W
R435	1-249-435-11	CARBON	33K	5%	1/4W
R437	1-249-429-11	CARBON	10K	5%	1/4W
R438	1-249-429-11	CARBON	10K	5%	1/4W
R439	1-249-425-11	CARBON	4.7K	5%	1/4W F
R440	1-249-433-11	CARBON	22K	5%	1/4W
R441	1-249-435-11	CARBON	33K	5%	1/4W
R443	1-249-417-11	CARBON	1K	5%	1/4W F
R451	1-260-076-11	CARBON	10	5%	1/2W
R452	1-260-076-11	CARBON	10	5%	1/2W
R471	1-260-089-11	CARBON	150	5%	1/2W
R472	1-260-089-11	CARBON	150	5%	1/2W
R473	1-249-402-11	CARBON	56	5%	1/4W F
R474	1-249-417-11	CARBON	1K	5%	1/4W F
R481	1-260-089-11	CARBON	150	5%	1/2W
R482	1-260-089-11	CARBON	150	5%	1/2W
R483	1-260-089-11	CARBON	150	5%	1/2W
R484	1-260-089-11	CARBON	150	5%	1/2W
R501	1-249-413-11	CARBON	470	5%	1/4W F
R502	1-249-425-11	CARBON	4.7K	5%	1/4W F
R503	1-249-437-11	CARBON	47K	5%	1/4W
R504	1-249-437-11	CARBON	47K	5%	1/4W
R505	1-249-429-11	CARBON	10K	5%	1/4W
R508	1-249-417-11	CARBON	1K	5%	1/4W F
R509	1-249-441-11	CARBON	100K	5%	1/4W
R521	1-249-425-11	CARBON	4.7K	5%	1/4W F
R522	1-249-407-11	CARBON	150	5%	1/4W F
R523	1-249-425-11	CARBON	4.7K	5%	1/4W F
R524	1-249-415-11	CARBON	680	5%	1/4W F
R527	1-249-429-11	CARBON	10K	5%	1/4W
R536	1-249-429-11	CARBON	10K	5%	1/4W
R550	1-247-843-11	CARBON	3.3K	5%	1/4W
R551	1-249-429-11	CARBON	10K	5%	1/4W
R567	1-247-807-31	CARBON	100	5%	1/4W
R568	1-249-429-11	CARBON	10K	5%	1/4W
R569	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-249-429-11	CARBON	10K	5%	1/4W
R571	1-249-429-11	CARBON	10K	5%	1/4W
R577	1-249-429-11	CARBON	10K	5%	1/4W
R610	1-247-891-00	CARBON	330K	5%	1/4W
R617	1-249-429-11	CARBON	10K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description			Remarks
R618	1-247-807-31	CARBON	100	5%	1/4W
R622	1-249-425-11	CARBON	4.7K	5%	1/4W F
R626	1-247-807-31	CARBON	100	5%	1/4W
R627	1-247-807-31	CARBON	100	5%	1/4W
R629	1-247-807-31	CARBON	100	5%	1/4W
R630	1-247-807-31	CARBON	100	5%	1/4W
R636	1-247-807-31	CARBON	100	5%	1/4W
R639	1-247-807-31	CARBON	100	5%	1/4W
R640	1-247-807-31	CARBON	100	5%	1/4W
R642	1-247-807-31	CARBON	100	5%	1/4W
R643	1-247-807-31	CARBON	100	5%	1/4W
R649	1-247-807-31	CARBON	100	5%	1/4W
R650	1-247-807-31	CARBON	100	5%	1/4W
R651	1-247-807-31	CARBON	100	5%	1/4W
R652	1-247-807-31	CARBON	100	5%	1/4W
R653	1-247-807-31	CARBON	100	5%	1/4W
R654	1-247-807-31	CARBON	100	5%	1/4W
R655	1-247-807-31	CARBON	100	5%	1/4W
R659	1-247-807-31	CARBON	100	5%	1/4W
R660	1-247-807-31	CARBON	100	5%	1/4W
R661	1-247-807-31	CARBON	100	5%	1/4W
R663	1-247-807-31	CARBON	100	5%	1/4W
R665	1-247-807-31	CARBON	100	5%	1/4W
R666	1-247-807-31	CARBON	100	5%	1/4W
R667	1-247-807-31	CARBON	100	5%	1/4W
R668	1-247-807-31	CARBON	100	5%	1/4W
R669	1-247-807-31	CARBON	100	5%	1/4W
R670	1-247-807-31	CARBON	100	5%	1/4W
R671	1-247-807-31	CARBON	100	5%	1/4W
R686	1-247-807-31	CARBON	100	5%	1/4W
R687	1-247-807-31	CARBON	100	5%	1/4W
R688	1-247-807-31	CARBON	100	5%	1/4W
R689	1-247-807-31	CARBON	100	5%	1/4W
R690	1-247-807-31	CARBON	100	5%	1/4W
R691	1-247-807-31	CARBON	100	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W F
R802	1-249-438-11	CARBON	56K	5%	1/4W
R803	1-249-413-11	CARBON	470	5%	1/4W F
R804	1-249-438-11	CARBON	56K	5%	1/4W
R805	1-249-417-11	CARBON	1K	5%	1/4W F
R806	1-249-431-11	CARBON	15K	5%	1/4W
R807	1-249-441-11	CARBON	100K	5%	1/4W
⚠R808	1-220-893-11	METAL	0.22	10%	5W
R809	1-260-076-11	CARBON	10	5%	1/2W
R810	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R811	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R812	1-202-972-61	FUSIBLE	1	5%	1/4W F
R813	1-249-435-11	CARBON	33K	5%	1/4W
R814	1-249-421-11	CARBON	2.2K	5%	1/4W F
R815	1-249-433-11	CARBON	22K	5%	1/4W
R816	1-249-429-11	CARBON	10K	5%	1/4W
R817	1-249-421-11	CARBON	2.2K	5%	1/4W F
R818	1-249-435-11	CARBON	33K	5%	1/4W
R819	1-249-439-11	CARBON	68K	5%	1/4W
R831	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R832	1-249-441-11	CARBON	100K	5%	1/4W
R833	1-249-437-11	CARBON	47K	5%	1/4W
R842	1-249-441-11	CARBON	100K	5%	1/4W
R851	1-249-417-11	CARBON	1K	5%	1/4W F
R852	1-249-438-11	CARBON	56K	5%	1/4W
R853	1-249-413-11	CARBON	470	5%	1/4W F
R854	1-249-438-11	CARBON	56K	5%	1/4W
R855	1-249-417-11	CARBON	1K	5%	1/4W F
R856	1-249-431-11	CARBON	15K	5%	1/4W
R857	1-249-441-11	CARBON	100K	5%	1/4W
⚠R858	1-220-893-11	METAL	0.22	10%	5W
R859	1-260-076-11	CARBON	10	5%	1/2W
R860	1-260-105-11	CARBON	3.3K	5%	1/2W
⚠R861	1-212-881-11	FUSIBLE	100	5%	1/4W F
R881	1-249-435-11	CARBON	33K	5%	1/4W
R882	1-249-435-11	CARBON	33K	5%	1/4W
R892	1-249-441-11	CARBON	100K	5%	1/4W
R901	1-247-843-11	CARBON	3.3K	5%	1/4W
R902	1-249-415-11	CARBON	680	5%	1/4W F
R903	1-249-419-11	CARBON	1.5K	5%	1/4W F
R904	1-249-414-11	CARBON	560	5%	1/4W F
R905	1-249-425-11	CARBON	4.7K	5%	1/4W F
R906	1-247-843-11	CARBON	3.3K	5%	1/4W
R907	1-249-415-11	CARBON	680	5%	1/4W F
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-249-430-11	CARBON	12K	5%	1/4W
R911	1-249-409-11	CARBON	220	5%	1/4W F
R916	1-249-421-11	CARBON	2.2K	5%	1/4W F
R917	1-260-087-81	CARBON	100	5%	1/2W
R920	1-249-383-11	CARBON	1.5	5%	1/6W F
R921	1-249-383-11	CARBON	1.5	5%	1/6W F
R931	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-238-600-11	RES, ADJ, CARBON 10K			
RV351	1-238-600-11	RES, ADJ, CARBON 10K			
		< RELAY >			
RY401	1-755-168-11	RELAY			
		< THERMISTOR >			
TH831	1-807-796-11	THERMISTOR			
		< TERMINAL >			
TM401	1-694-302-11	TERMINAL BOARD (SPEAKER)			
		< VIBRATOR >			
X601	1-567-098-41	VIBRATOR, CRYSTAL 32.768kHz			
X613	1-781-107-21	VIBRATOR, SERAMIC 16MHz			

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MOTOR (SLIDE) MOTOR (TURN) PANEL

Ref. No.	Part No.	Description			Remarks
*	1-658-578-11	MOTOR (SLIDE) BOARD			
		**********			
		< CAPACITOR >			
C801	1-162-306-11	CERAMIC	0.01uF	30%	16V
C804	1-162-306-11	CERAMIC	0.01uF	30%	16V
C805	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN801	1-568-947-11	PIN, CONNECTOR 9P			
		< DIODE >			
D801	8-719-109-93	DIODE MTZJ-T-77-6.2C			
D804	8-719-991-33	DIODE 1SS133T-77			
D805	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC801	8-759-274-09	IC BA6286N			
		< RESISTOR >			
R801	1-249-401-11	CARBON	47	5%	1/4W F
		< SWITCH >			
S801	1-762-527-11	SWITCH, ROTARY (OPEN/CLOSE DET)			
**********					
*	1-658-577-11	MOTOR (TURN) BOARD			
		**********			
		< CAPACITOR >			
C701	1-162-306-11	CERAMIC	0.01uF	30%	16V
C702	1-126-964-11	ELECT	10uF	20%	50V
C705	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN703	1-785-550-11	CONNECTOR, FFC/FPC 8P			
CN704	1-506-469-11	PIN, CONNECTOR 4P			
		< DIODE >			
D701	8-719-109-69	DIODE MTZJ-T-77-3.6B			
		< IC >			
IC701	8-759-633-65	IC M54641L			
		< RESISTOR >			
R706	1-249-411-11	CARBON	330	5%	1/4W
R707	1-249-401-11	CARBON	47	5%	1/4W F
**********					
	A-4426-761-A	PANEL BOARD, COMPLETE			
		**********			
*	4-214-439-11	HOLDER, FL TUBE			
	4-949-935-41	CUSHION (FL)			
		< CAPACITOR >			
C601	1-124-589-11	ELECT	47uF	20%	16V
C602	1-126-163-11	ELECT	4.7uF	20%	50V
C603	1-162-306-11	CERAMIC	0.01uF	30%	16V
C604	1-162-294-31	CERAMIC	0.001uF	10%	50V
C606	1-126-160-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C607	1-126-160-11	ELECT	1uF	20%	50V
C610	1-124-589-11	ELECT	47uF	20%	16V
C611	1-162-306-11	CERAMIC	0.01uF	30%	16V
C612	1-162-306-11	CERAMIC	0.01uF	30%	16V
C614	1-162-306-11	CERAMIC	0.01uF	30%	16V
C615	1-162-306-11	CERAMIC	0.01uF	30%	16V
C616	1-126-157-11	ELECT	10uF	20%	16V
C617	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C618	1-126-157-11	ELECT	10uF	20%	16V
C619	1-126-157-11	ELECT	10uF	20%	16V
C620	1-126-163-11	ELECT	4.7uF	20%	50V
C625	1-126-157-11	ELECT	10uF	20%	16V
C627	1-162-306-11	CERAMIC	0.01uF	30%	16V
C628	1-126-157-11	ELECT	10uF	20%	16V
C630	1-162-306-11	CERAMIC	0.01uF	30%	16V
C651	1-162-282-31	CERAMIC	100PF	10%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-162-282-31	CERAMIC	100PF	10%	50V
C654	1-162-282-31	CERAMIC	100PF	10%	50V
C655	1-162-282-31	CERAMIC	100PF	10%	50V
C656	1-162-282-31	CERAMIC	100PF	10%	50V
C657	1-162-282-31	CERAMIC	100PF	10%	50V
C658	1-162-282-31	CERAMIC	100PF	10%	50V
C659	1-162-282-31	CERAMIC	100PF	10%	50V
C660	1-162-282-31	CERAMIC	100PF	10%	50V
C661	1-162-282-31	CERAMIC	100PF	10%	50V
C662	1-162-282-31	CERAMIC	100PF	10%	50V
C663	1-162-282-31	CERAMIC	100PF	10%	50V
C664	1-162-282-31	CERAMIC	100PF	10%	50V
C665	1-162-282-31	CERAMIC	100PF	10%	50V
C666	1-162-282-31	CERAMIC	100PF	10%	50V
C667	1-162-282-31	CERAMIC	100PF	10%	50V
C668	1-162-282-31	CERAMIC	100PF	10%	50V
C701	1-162-294-31	CERAMIC	0.001uF	10%	50V
C702	1-162-294-31	CERAMIC	0.001uF	10%	50V
C703	1-164-159-11	CERAMIC	0.1uF		50V
C711	1-162-294-31	CERAMIC	0.001uF	10%	50V
C712	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C713	1-126-160-11	ELECT	1uF	20%	50V
C714	1-136-495-11	MYLAR	0.068uF	5%	50V
C715	1-124-465-00	ELECT	0.47uF	20%	50V
C716	1-124-465-00	ELECT	0.47uF	20%	50V
C717	1-136-167-00	MYLAR	0.15uF	5%	50V
C718	1-162-294-31	CERAMIC	0.001uF	10%	50V
C719	1-126-160-11	ELECT	1uF	20%	50V
C720	1-161-494-00	CERAMIC	0.022uF	25V	
C721	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C722	1-136-495-11	MYLAR	0.068uF	5%	50V
C723	1-124-589-11	ELECT	47uF	20%	16V
C724	1-136-165-00	MYLAR	0.1uF	5%	50V
C725	1-124-589-11	ELECT	47uF	20%	16V
C731	1-162-306-11	CERAMIC	0.01uF	30%	16V
C732	1-124-257-00	ELECT	2.2uF	20%	50V
C733	1-162-294-31	CERAMIC	0.001uF	10%	50V
C734	1-162-215-31	CERAMIC	47PF	5%	50V
C735	1-124-261-00	ELECT	10uF	20%	50V
C736	1-162-290-31	CERAMIC	470PF	10%	50V
C737	1-124-463-00	ELECT	0.1uF	20%	50V
C738	1-124-257-00	ELECT	2.2uF	20%	50V
C739	1-162-215-31	CERAMIC	47PF	5%	50V

Ref. No.	Part No.	Description			Remarks
C741	1-124-261-00	ELECT	10uF	20%	50V
C742	1-162-282-31	CERAMIC	100PF	10%	50V
C743	1-124-257-00	ELECT	2.2uF	20%	50V
C744	1-162-306-11	CERAMIC	0.01uF	30%	16V
C745	1-124-257-00	ELECT	2.2uF	20%	50V
C747	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN601	1-784-745-11	CONNECTOR, FFC 23P			
		< DIODE >			
D610	8-719-050-84	DIODE RB441Q-40T-97			
D611	8-719-073-47	DIODE SML72923C-TP15			(REC PAUSE/START)
D612	8-719-056-13	DIODE SML79423C-TP15 (▶II CD)			
D613	8-719-058-03	DIODE SEL5423E-TP15 (▶ TAPE B)			
D614	8-719-058-03	DIODE SEL5423E-TP15 (◀ TAPE B)			
D615	8-719-058-03	DIODE SEL5423E-TP15 (▶ TAPE A)			
D616	8-719-058-03	DIODE SEL5423E-TP15 (◀ TAPE A)			
D617	8-719-057-97	DIODE SEL5923A-TP15 (PBC OFF)			
D618	8-719-057-97	DIODE SEL5923A-TP15 (PBC)			
D619	8-719-057-97	DIODE SEL5923A-TP15 (SYNC BASS L)			
D620	8-719-057-97	DIODE SEL5923A-TP15 (SYNC BASS H)			
D621	8-719-057-97	DIODE SEL5923A-TP15 (SYNC EQ)			
D623	8-719-057-97	DIODE SEL5923A-TP15 (VIDEO CD)			
D624	8-719-063-93	DIODE SLR325VC-N-T32 (CD NON-STOP)			
D627	8-719-057-97	DIODE SEL5923A-TP15 (GROOVE)			
D628	8-719-063-93	DIODE SLR325VC-N-T32 (ENTER/NEXT)			
D629	8-719-063-93	DIODE SLR325VC-N-T32 (JOG DIAL)			
D630	8-719-057-97	DIODE SEL5923A-TP15 (- ◀◀)			
D631	8-719-057-97	DIODE SEL5923A-TP15 (+ ▶▶)			
D632	8-719-063-93	DIODE SLR325VC-N-T32 (TIMER SELECT)			
D701	8-719-109-85	DIODE RD5.1ESB2			
		< TERMINAL >			
* EP601	1-537-738-21	TERMINAL, EARTH			
		< FERRITE BEAD >			
FB601	1-412-473-21	INDUCTOR 0UH			
FB602	1-412-473-21	INDUCTOR 0UH			
		< FILTER >			
FL601	1-517-831-31	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC601	8-759-589-14	IC TMP88CS76F-6010			
IC602	8-749-011-05	IC GP1U28X (REMOTE CONTROL RECEIVER)			
IC603	8-759-570-21	IC BA3830F-E2			
IC604	8-759-587-81	IC NJU3716M-TE2			
IC711	8-759-496-40	IC M65850FP			
IC712	8-759-636-55	IC M5218AFP			
		< JACK >			
J701	1-785-569-11	JACK (SMALL TYPE)(PHONES)			
J711	1-785-569-11	JACK (SMALL TYPE)(MIC2)			
J712	1-785-569-11	JACK (SMALL TYPE)(MIC1)			

Ref. No.	Part No.	Description			Remarks
		< COIL >			
L601	1-410-509-11	INDUCTOR 10uH			
L602	1-410-517-11	INDUCTOR 47uH			
		< TRANSISTOR >			
Q601	8-729-118-00	TRANSISTOR 2SB1116-L			
Q602	8-729-118-00	TRANSISTOR 2SB1116-L			
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q604	8-729-422-57	TRANSISTOR UN4111			
Q605	8-729-422-57	TRANSISTOR UN4111			
Q606	8-729-900-80	TRANSISTOR DTC114ES			
Q607	8-729-900-74	TRANSISTOR DTC143TS			
Q608	8-729-900-74	TRANSISTOR DTC143TS			
Q609	8-729-900-74	TRANSISTOR DTC143TS			
Q610	8-729-900-74	TRANSISTOR DTC143TS			
Q611	8-729-900-74	TRANSISTOR DTC143TS			
Q612	8-729-900-74	TRANSISTOR DTC143TS			
Q613	8-729-900-74	TRANSISTOR DTC143TS			
		< RESISTOR >			
R600	1-247-903-00	CARBON	1M	5%	1/4W
R601	1-247-807-31	CARBON	100	5%	1/4W
R602	1-249-429-11	CARBON	10K	5%	1/4W
R603	1-247-807-31	CARBON	100	5%	1/4W
R604	1-247-807-31	CARBON	100	5%	1/4W
R605	1-249-429-11	CARBON	10K	5%	1/4W
R606	1-249-401-11	CARBON	47	5%	1/4W F
R607	1-247-893-11	CARBON	390K	5%	1/4W
R608	1-247-893-11	CARBON	390K	5%	1/4W
R609	1-249-441-11	CARBON	100K	5%	1/4W
R610	1-249-429-11	CARBON	10K	5%	1/4W
R611	1-249-441-11	CARBON	100K	5%	1/4W
R612	1-249-401-11	CARBON	47	5%	1/4W F
R613	1-249-435-11	CARBON	33K	5%	1/4W
R614	1-247-895-00	CARBON	470K	5%	1/4W
R615	1-249-429-11	CARBON	10K	5%	1/4W
R616	1-249-441-11	CARBON	100K	5%	1/4W
R617	1-249-441-11	CARBON	100K	5%	1/4W
R618	1-249-441-11	CARBON	100K	5%	1/4W
R619	1-249-441-11	CARBON	100K	5%	1/4W
R620	1-249-441-11	CARBON	100K	5%	1/4W
R621	1-249-429-11	CARBON	10K	5%	1/4W
R622	1-249-410-11	CARBON	270	5%	1/4W F
R623	1-249-411-11	CARBON	330	5%	1/4W
R624	1-249-413-11	CARBON	470	5%	1/4W F
R625	1-249-414-11	CARBON	560	5%	1/4W F
R626	1-249-415-11	CARBON	680	5%	1/4W F
R627	1-249-417-11	CARBON	1K	5%	1/4W F
R628	1-249-418-11	CARBON	1.2K	5%	1/4W F
R629	1-249-420-11	CARBON	1.8K	5%	1/4W F
R630	1-249-422-11	CARBON	2.7K	5%	1/4W F
R631	1-247-843-11	CARBON	3.3K	5%	1/4W
R632	1-249-425-11	CARBON	4.7K	5%	1/4W F
R636	1-249-429-11	CARBON	10K	5%	1/4W
R637	1-249-410-11	CARBON	270	5%	1/4W F
R638	1-249-411-11	CARBON	330	5%	1/4W
R639	1-249-413-11	CARBON	470	5%	1/4W F
R640	1-249-414-11	CARBON	560	5%	1/4W F
R641	1-249-415-11	CARBON	680	5%	1/4W F
R642	1-249-417-11	CARBON	1K	5%	1/4W F

PANEL

Ref. No.	Part No.	Description			Remarks
R643	1-249-418-11	CARBON	1.2K	5%	1/4W F
R644	1-249-420-11	CARBON	1.8K	5%	1/4W F
R645	1-249-422-11	CARBON	2.7K	5%	1/4W F
R646	1-247-843-11	CARBON	3.3K	5%	1/4W
R647	1-249-425-11	CARBON	4.7K	5%	1/4W F
R650	1-249-429-11	CARBON	10K	5%	1/4W
R651	1-249-410-11	CARBON	270	5%	1/4W F
R652	1-249-411-11	CARBON	330	5%	1/4W
R653	1-249-413-11	CARBON	470	5%	1/4W F
R654	1-249-414-11	CARBON	560	5%	1/4W F
R655	1-249-415-11	CARBON	680	5%	1/4W F
R656	1-249-429-11	CARBON	10K	5%	1/4W
R657	1-249-410-11	CARBON	270	5%	1/4W F
R658	1-249-411-11	CARBON	330	5%	1/4W
R659	1-249-413-11	CARBON	470	5%	1/4W F
R660	1-249-414-11	CARBON	560	5%	1/4W F
R661	1-249-415-11	CARBON	680	5%	1/4W F
R662	1-249-417-11	CARBON	1K	5%	1/4W F
R663	1-249-418-11	CARBON	1.2K	5%	1/4W F
R664	1-249-420-11	CARBON	1.8K	5%	1/4W F
R665	1-249-422-11	CARBON	2.7K	5%	1/4W F
R666	1-249-417-11	CARBON	1K	5%	1/4W F
R667	1-249-417-11	CARBON	1K	5%	1/4W F
R668	1-249-441-11	CARBON	100K	5%	1/4W
R669	1-249-441-11	CARBON	100K	5%	1/4W
R670	1-249-414-11	CARBON	560	5%	1/4W F
R671	1-249-437-11	CARBON	47K	5%	1/4W
R672	1-249-417-11	CARBON	1K	5%	1/4W F
R673	1-249-437-11	CARBON	47K	5%	1/4W
R674	1-249-417-11	CARBON	1K	5%	1/4W F
R675	1-249-437-11	CARBON	47K	5%	1/4W
R676	1-249-429-11	CARBON	10K	5%	1/4W
R678	1-249-407-11	CARBON	150	5%	1/4W F
R679	1-249-407-11	CARBON	150	5%	1/4W F
R680	1-247-804-11	CARBON	75	5%	1/4W
R681	1-249-407-11	CARBON	150	5%	1/4W F
R682	1-247-804-11	CARBON	75	5%	1/4W
R683	1-247-804-11	CARBON	75	5%	1/4W
R684	1-247-804-11	CARBON	75	5%	1/4W
R685	1-247-804-11	CARBON	75	5%	1/4W
R686	1-249-402-11	CARBON	56	5%	1/4W F
R687	1-249-402-11	CARBON	56	5%	1/4W F
R688	1-249-402-11	CARBON	56	5%	1/4W F
R689	1-249-402-11	CARBON	56	5%	1/4W F
R690	1-249-402-11	CARBON	56	5%	1/4W F
R692	1-249-402-11	CARBON	56	5%	1/4W F
R693	1-249-407-11	CARBON	150	5%	1/4W F
R696	1-249-402-11	CARBON	56	5%	1/4W F
R697	1-249-407-11	CARBON	150	5%	1/4W F
R698	1-249-407-11	CARBON	150	5%	1/4W F
R699	1-247-807-31	CARBON	100	5%	1/4W
R700	1-247-807-31	CARBON	100	5%	1/4W
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-429-11	CARBON	10K	5%	1/4W
R703	1-249-429-11	CARBON	10K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-429-11	CARBON	10K	5%	1/4W
R710	1-249-401-11	CARBON	47	5%	1/4W F
R711	1-249-433-11	CARBON	22K	5%	1/4W
R712	1-249-433-11	CARBON	22K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R713	1-249-433-11	CARBON	22K	5%	1/4W
R714	1-249-437-11	CARBON	47K	5%	1/4W
R715	1-249-433-11	CARBON	22K	5%	1/4W
R716	1-249-431-11	CARBON	15K	5%	1/4W
R717	1-249-433-11	CARBON	22K	5%	1/4W
R718	1-249-433-11	CARBON	22K	5%	1/4W
R719	1-247-881-00	CARBON	120K	5%	1/4W
R721	1-249-429-11	CARBON	10K	5%	1/4W
R722	1-249-417-11	CARBON	1K	5%	1/4W F
R723	1-249-441-11	CARBON	100K	5%	1/4W
R724	1-249-417-11	CARBON	1K	5%	1/4W F
R725	1-249-437-11	CARBON	47K	5%	1/4W
R726	1-249-429-11	CARBON	10K	5%	1/4W
R727	1-249-431-11	CARBON	15K	5%	1/4W
R728	1-247-885-00	CARBON	180K	5%	1/4W
R729	1-247-807-31	CARBON	100	5%	1/4W
R731	1-249-440-11	CARBON	82K	5%	1/4W
R732	1-249-435-11	CARBON	33K	5%	1/4W
R733	1-249-438-11	CARBON	56K	5%	1/4W
R734	1-249-417-11	CARBON	1K	5%	1/4W F
R735	1-249-420-11	CARBON	1.8K	5%	1/4W F
R741	1-249-421-11	CARBON	2.2K	5%	1/4W F
R742	1-249-421-11	CARBON	2.2K	5%	1/4W F
R743	1-249-421-11	CARBON	2.2K	5%	1/4W F
R768	1-249-417-11	CARBON	1K	5%	1/4W F
R769	1-249-429-11	CARBON	10K	5%	1/4W

< VARIABLE RESISTOR >

RV711	1-225-739-11	RES, VAR CARBON 50K (ECHO LEVEL)
RV712	1-225-739-11	RES, VAR CARBON 50K (MIC LEVEL)

< SWITCH >

S601	1-473-534-11	ENCODER, ROTARY (JOG DIAL)
S602	1-473-392-11	ENCODER, ROTARY (VOLUME)
S611	1-762-875-21	SWITCH, KEYBOARD (SYNC BASS)
S612	1-762-875-21	SWITCH, KEYBOARD (SYNC EQ)
S613	1-762-875-21	SWITCH, KEYBOARD (KARAOKE/PON MPX)
S614	1-762-875-21	SWITCH, KEYBOARD (CD NON-STOP)
S615	1-762-875-21	SWITCH, KEYBOARD (CINEMA SPACE/SURROUND)
S616	1-762-875-21	SWITCH, KEYBOARD (DBFB)
S617	1-762-875-21	SWITCH, KEYBOARD (ENTER/NEXT)
S618	1-762-875-21	SWITCH, KEYBOARD (+ ▶▶)
S619	1-762-875-21	SWITCH, KEYBOARD (- ◀◀)
S620	1-762-875-21	SWITCH, KEYBOARD (GROOVE)
S621	1-762-875-21	SWITCH, KEYBOARD (CD FLASH)
S625	1-762-875-21	SWITCH, KEYBOARD (REC PAUSE/START)
S626	1-762-875-21	SWITCH, KEYBOARD (HI-DUB)
S627	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)
S628	1-762-875-21	SWITCH, KEYBOARD (CD LOOP)
S629	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)
S630	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM ANALYZER))
S632	1-762-875-21	SWITCH, KEYBOARD (SELECT)
S633	1-762-875-21	SWITCH, KEYBOARD (RETURN)
S634	1-762-875-21	SWITCH, KEYBOARD (PREV)
S635	1-762-875-21	SWITCH, KEYBOARD (NEXT)
S638	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)
S639	1-762-875-21	SWITCH, KEYBOARD (P FILE MEMORY)

Ref. No.	Part No.	Description				Remarks
S640	1-762-875-21	SWITCH, KEYBOARD (GEQ CONTROL)				
S641	1-762-875-21	SWITCH, KEYBOARD (FILE SELECT)				
S642	1-762-875-21	SWITCH, KEYBOARD (EFFECT)				
S643	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)				
S644	1-762-875-21	SWITCH, KEYBOARD (▶II CD)				
S645	1-762-875-21	SWITCH, KEYBOARD (▶II CD)				
S646	1-762-875-21	SWITCH, KEYBOARD (► TAPE B)				
S647	1-762-875-21	SWITCH, KEYBOARD (◄ TAPE B)				
S648	1-762-875-21	SWITCH, KEYBOARD (► TAPE A)				
S649	1-762-875-21	SWITCH, KEYBOARD (◄ TAPE A)				
S650	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)				
S651	1-762-875-21	SWITCH, KEYBOARD (CLOCK TIMER SET)				
		< VIBRATOR >				
X601	1-781-312-11	VIBRATOR, CERAMIC 12.5MHz				
**********						
*	1-658-576-11	SENSOR BOARD				
		**********				
		< IC >				
IC702	8-749-924-18	PHOTO INTERRUPTER RPI-1391				
IC703	8-749-924-30	PHOTO REFLECTOR GP2S28				
		< RESISTOR >				
R701	1-249-416-11	CARBON	820	5%	1/4W	F
R702	1-249-407-11	CARBON	150	5%	1/4W	F
**********						
	A-4426-775-A	SURROUND MOUNTED BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C1201	1-162-203-31	CERAMIC	15PF	5%	50V	
C1202	1-162-216-31	CERAMIC	51PF	5%	50V	
C1203	1-162-282-31	CERAMIC	100PF	10%	50V	
C1204	1-162-283-31	CERAMIC	120PF	10%	50V	
C1205	1-162-279-31	CERAMIC	75PF	10%	50V	
C1206	1-136-165-00	MYLAR	0.1uF	5%	50V	
C1207	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1208	1-126-934-11	ELECT	220uF	20%	10V	
C1209	1-136-165-00	MYLAR	0.1uF	5%	50V	
C1210	1-126-964-11	ELECT	10uF	20%	50V	
C1211	1-126-964-11	ELECT	10uF	20%	50V	
C1212	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C1213	1-126-934-11	ELECT	220uF	20%	10V	
C1214	1-136-167-00	MYLAR	0.15uF	5%	50V	
C1215	1-162-303-11	CERAMIC	0.0033uF	30%	16V	
C1216	1-136-167-00	MYLAR	0.15uF	5%	50V	
C1217	1-124-252-00	ELECT	0.33uF	20%	50V	
C1218	1-126-934-11	ELECT	220uF	20%	10V	
C1219	1-126-964-11	ELECT	10uF	20%	50V	
C1220	1-126-964-11	ELECT	10uF	20%	50V	
C1221	1-162-216-31	CERAMIC	51PF	5%	50V	
		< CONNECTOR >				
* CN1201	1-564-788-11	PIN, CONNECTOR 8P				
		< IC >				
IC1201	8-759-579-61	IC LV1150				

Ref. No.	Part No.	Description				Remarks
		< COIL >				
L1201	1-410-509-11	INDUCTOR 10uH				
		< RESISTOR >				
R1203	1-249-441-11	CARBON	100K	5%	1/4W	
R1204	1-249-441-11	CARBON	100K	5%	1/4W	
R1205	1-249-417-11	CARBON	1K	5%	1/4W	F
R1206	1-249-441-11	CARBON	100K	5%	1/4W	
R1207	1-249-441-11	CARBON	100K	5%	1/4W	
**********						
*	1-672-369-11	TRANSFORMER BOARD				
		**********				
	1-533-217-31	HOLDER, FUSE				
		< CAPACITOR >				
C952	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C971	1-128-563-11	ELECT	100uF	20%	100V	
C972	1-126-960-11	ELECT	1uF	20%	50V	
C973	1-126-948-11	ELECT	100uF	20%	35V	
		< CONNECTOR >				
CN951	1-564-321-00	PIN, CONNECTOR 2P				
* CN952	1-564-527-11	PLUG, CONNECTOR 12P				
CN971	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE)3P				
		< DIODE >				
D971	8-719-024-99	DIODE 11ES2-NTA2B				
D972	8-719-986-60	DIODE HZS27-3LTA				
D973	8-719-109-63	DIODE RD5.1ESB2				
		< FUSE >				
⚠F951	1-532-506-31	FUSE 5A/250V				
⚠F961	1-532-505-31	FUSE 6.3A/250V				
⚠F962	1-532-505-31	FUSE 6.3A/250V				
⚠F963	1-532-506-31	FUSE 5A/250V				
⚠F964	1-532-506-31	FUSE 5A/250V				
		< TRANSISTOR >				
Q971	8-729-048-52	TRANSISTOR 2SA1932(TP)				
		< RESISTOR >				
⚠R951	1-533-597-31	LINK IC 5A				
⚠R952	1-533-597-31	LINK IC 5A				
⚠R953	1-219-119-81	FUSIBLE	0.1	5%	1/4W	F
⚠R971	1-216-456-00	METAL OXIDE	820	5%	2W	F
R972	1-249-429-11	CARBON	10K	5%	1/4W	
R973	1-249-429-11	CARBON	10K	5%	1/4W	
R974	1-247-807-31	CARBON	100	5%	1/4W	
R975	1-247-807-31	CARBON	100	5%	1/4W	
		< TRANSFORMER >				
⚠T951	1-433-565-31	TRANSFORMER, POWER				
**********						

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

VIDEO

Ref. No.	Part No.	Description			Remarks
	A-4724-927-A	VIDEO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C102	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C103	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C104	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C105	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C106	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C107	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C201	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C202	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V
C203	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C501	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C503	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C504	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C505	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C510	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C511	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C512	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C513	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C514	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C515	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C516	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C517	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C518	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C519	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C520	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C521	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C522	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C523	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C524	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C525	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C526	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C527	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C528	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C529	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C530	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C531	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C532	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C533	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C534	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C535	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C536	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C537	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C538	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C539	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C540	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C541	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C543	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C544	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C545	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C546	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C547	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C548	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C549	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C550	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C551	1-126-206-11	ELECT CHIP	100uF	20%	6.3V

Ref. No.	Part No.	Description			Remarks
C552	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C554	1-104-527-11	FILM CHIP	100PF	5%	50V
C555	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C556	1-104-527-11	FILM CHIP	100PF	5%	50V
C557	1-104-527-11	FILM CHIP	100PF	5%	50V
C558	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C559	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C560	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C561	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C562	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C563	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C564	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C565	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C566	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C567	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C570	1-117-681-11	ELECT CHIP	100uF	20%	16V
C603	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C604	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C605	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C606	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C607	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C608	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C609	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C610	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C611	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C612	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
		< CONNECTOR >			
CN501	1-770-708-11	CONNECTOR, FFC/FPC 25P			
CN502	1-793-580-11	CONNECTOR (LIF) (NON-Z1F)(15P)			
CN505	1-774-766-11	CONNECTOR, FFC/FPC 11P			
		< TRIMMER >			
CT503	1-141-539-11	CAP, ADJ 10PF			
		< DIODE >			
D502	8-719-018-51	DIODE CL-170R-CD-T (SELF DIAGNOSIS)			
		< FERRITE BEAD >			
FB501	1-414-772-11	FERRITE 0UH			
FB502	1-414-772-11	FERRITE 0UH			
FB503	1-414-772-11	FERRITE 0UH			
		< IC >			
IC503	8-759-530-30	IC TC74VHCU04FT(EL)			
IC504	8-759-460-72	IC BA033FP-E2			
IC505	8-759-646-72	IC M30624MG-A05FP			
IC506	8-759-646-37	IC CL8830-PDO			
IC507	8-759-573-19	IC MSM56V16160D-10TS-K			
IC508	8-759-646-85	IC MSM27C401CZ-A4GSKDR1			
IC509	8-759-535-62	IC PCM1727E-2/T2			
IC510	8-759-530-30	IC TC74VHCU04FT(EL)			
IC511	8-759-646-38	IC BU2990-03FV			
IC514	8-759-643-06	IC BU1427K			
IC515	8-759-701-39	IC NJM2100M(TE2)			
		< JACK >			
J501	1-537-943-11	TERMINAL, S (S VIDEO OUT)			
J502	1-774-227-11	JACK, PIN 1P (VIDEO OUT)			

Ref. No.	Part No.	Description			Remarks
		< JUMPER RESISTOR >			
JW503	1-216-295-91	SHORT 0			
JW504	1-216-295-91	SHORT 0			
JW506	1-216-295-91	SHORT 0			
JW514	1-216-295-91	SHORT 0			
JW515	1-216-295-91	SHORT 0			
JW526	1-216-295-91	SHORT 0			
JW527	1-216-295-91	SHORT 0			
JW538	1-216-295-91	SHORT 0			
JW539	1-216-295-91	SHORT 0			
JW541	1-216-295-91	SHORT 0			
JW542	1-216-295-91	SHORT 0			
JW543	1-216-295-91	SHORT 0			
JW544	1-216-295-91	SHORT 0			
JW545	1-216-295-91	SHORT 0			
JW546	1-216-295-91	SHORT 0			
JW547	1-216-295-91	SHORT 0			
JW548	1-216-295-91	SHORT 0			
		< COIL >			
L501	1-216-296-91	SHORT 0			
L502	1-216-296-91	SHORT 0			
L503	1-410-370-31	INDUCTOR CHIP	1.2uH		
L504	1-410-375-11	INDUCTOR CHIP	3.3uH		
L505	1-410-370-31	INDUCTOR CHIP	1.2uH		
L506	1-216-296-91	SHORT 0			
L507	1-216-296-91	SHORT 0			
L508	1-216-296-91	SHORT 0			
L509	1-216-296-91	SHORT 0			
L517	1-216-296-91	SHORT 0			
L518	1-216-296-91	SHORT 0			
L519	1-410-374-11	INDUCTOR CHIP	2.7uH		
L520	1-410-374-11	INDUCTOR CHIP	2.7uH		
L521	1-410-374-11	INDUCTOR CHIP	2.7uH		
		< RESISTOR >			
R101	1-216-073-00	METAL CHIP	10K	5%	1/10W
R102	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R103	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R104	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R105	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R202	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R203	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R501	1-216-025-91	RES,CHIP	100	5%	1/10W
R502	1-216-025-91	RES,CHIP	100	5%	1/10W
R503	1-216-025-91	RES,CHIP	100	5%	1/10W
R504	1-216-073-00	METAL CHIP	10K	5%	1/10W
R505	1-216-073-00	METAL CHIP	10K	5%	1/10W
R506	1-216-025-91	RES,CHIP	100	5%	1/10W
R507	1-216-073-00	METAL CHIP	10K	5%	1/10W
R508	1-216-025-91	RES,CHIP	100	5%	1/10W
R509	1-216-025-91	RES,CHIP	100	5%	1/10W
R510	1-216-073-00	METAL CHIP	10K	5%	1/10W
R511	1-216-073-00	METAL CHIP	10K	5%	1/10W
R512	1-216-053-00	METAL CHIP	1.5K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R513	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R514	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R515	1-216-073-00	METAL CHIP	10K	5%	1/10W
R516	1-216-025-91	RES,CHIP	100	5%	1/10W
R517	1-216-025-91	RES,CHIP	100	5%	1/10W
R518	1-216-025-91	RES,CHIP	100	5%	1/10W
R519	1-216-073-00	METAL CHIP	10K	5%	1/10W
R520	1-216-073-00	METAL CHIP	10K	5%	1/10W
R521	1-216-073-00	METAL CHIP	10K	5%	1/10W
R522	1-216-025-91	RES,CHIP	100	5%	1/10W
R524	1-216-025-91	RES,CHIP	100	5%	1/10W
R525	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R530	1-216-073-00	METAL CHIP	10K	5%	1/10W
R531	1-216-073-00	METAL CHIP	10K	5%	1/10W
R532	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R533	1-216-073-00	METAL CHIP	10K	5%	1/10W
R534	1-216-073-00	METAL CHIP	10K	5%	1/10W
R537	1-216-073-00	METAL CHIP	10K	5%	1/10W
R538	1-216-025-91	RES,CHIP	100	5%	1/10W
R539	1-216-025-91	RES,CHIP	100	5%	1/10W
R540	1-216-025-91	RES,CHIP	100	5%	1/10W
R541	1-216-025-91	RES,CHIP	100	5%	1/10W
R542	1-216-295-91	SHORT 0			
R543	1-216-295-91	SHORT 0			
R544	1-216-295-91	SHORT 0			
R545	1-216-029-00	METAL CHIP	150	5%	1/10W
R546	1-216-121-91	RES,CHIP	1M	5%	1/10W
R547	1-216-025-91	RES,CHIP	100	5%	1/10W
R548	1-216-025-91	RES,CHIP	100	5%	1/10W
R549	1-216-025-91	RES,CHIP	100	5%	1/10W
R550	1-216-025-91	RES,CHIP	100	5%	1/10W
R551	1-216-025-91	RES,CHIP	100	5%	1/10W
R552	1-216-025-91	RES,CHIP	100	5%	1/10W
R553	1-216-025-91	RES,CHIP	100	5%	1/10W
R554	1-216-025-91	RES,CHIP	100	5%	1/10W
R555	1-216-025-91	RES,CHIP	100	5%	1/10W
R556	1-216-295-91	SHORT 0			
R557	1-216-295-91	SHORT 0			
R558	1-216-295-91	SHORT 0			
R559	1-216-025-91	RES,CHIP	100	5%	1/10W
R560	1-216-073-00	METAL CHIP	10K	5%	1/10W
R561	1-216-295-91	SHORT 0			
R562	1-216-022-00	METAL CHIP	75	5%	1/10W
R563	1-216-022-00	METAL CHIP	75	5%	1/10W
R564	1-216-022-00	METAL CHIP	75	5%	1/10W
R565	1-216-073-00	METAL CHIP	10K	5%	1/10W
R566	1-216-073-00	METAL CHIP	10K	5%	1/10W
R567	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R568	1-216-295-91	SHORT 0			
R599	1-216-049-91	RES,CHIP	1K	5%	1/10W
R605	1-216-017-91	RES,CHIP	47	5%	1/10W
R606	1-216-017-91	RES,CHIP	47	5%	1/10W
R607	1-216-017-91	RES,CHIP	47	5%	1/10W
R608	1-216-017-91	RES,CHIP	47	5%	1/10W
R609	1-216-017-91	RES,CHIP	47	5%	1/10W
R610	1-216-017-91	RES,CHIP	47	5%	1/10W
R611	1-216-017-91	RES,CHIP	47	5%	1/10W
R612	1-216-017-91	RES,CHIP	47	5%	1/10W
R613	1-216-017-91	RES,CHIP	47	5%	1/10W
R614	1-216-017-91	RES,CHIP	47	5%	1/10W

VIDEO 5V POWER

Ref. No.	Part No.	Description			Remarks
R615	1-216-017-91	RES,CHIP	47	5%	1/10W
R616	1-216-017-91	RES,CHIP	47	5%	1/10W
R617	1-216-017-91	RES,CHIP	47	5%	1/10W
R618	1-216-017-91	RES,CHIP	47	5%	1/10W
R619	1-216-017-91	RES,CHIP	47	5%	1/10W
R620	1-216-017-91	RES,CHIP	47	5%	1/10W
R621	1-216-017-91	RES,CHIP	47	5%	1/10W
R622	1-216-017-91	RES,CHIP	47	5%	1/10W
R623	1-216-017-91	RES,CHIP	47	5%	1/10W
R624	1-216-017-91	RES,CHIP	47	5%	1/10W
R625	1-216-017-91	RES,CHIP	47	5%	1/10W
R626	1-216-017-91	RES,CHIP	47	5%	1/10W
R627	1-216-017-91	RES,CHIP	47	5%	1/10W
R628	1-216-017-91	RES,CHIP	47	5%	1/10W
R629	1-216-017-91	RES,CHIP	47	5%	1/10W
R630	1-216-017-91	RES,CHIP	47	5%	1/10W
R631	1-216-017-91	RES,CHIP	47	5%	1/10W
R632	1-216-017-91	RES,CHIP	47	5%	1/10W
R633	1-216-017-91	RES,CHIP	47	5%	1/10W
R634	1-216-017-91	RES,CHIP	47	5%	1/10W
R635	1-216-017-91	RES,CHIP	47	5%	1/10W
R636	1-216-017-91	RES,CHIP	47	5%	1/10W
R637	1-216-017-91	RES,CHIP	47	5%	1/10W
R638	1-216-017-91	RES,CHIP	47	5%	1/10W
R639	1-216-017-91	RES,CHIP	47	5%	1/10W
R640	1-216-017-91	RES,CHIP	47	5%	1/10W
R641	1-216-017-91	RES,CHIP	47	5%	1/10W
R642	1-216-017-91	RES,CHIP	47	5%	1/10W
R643	1-216-017-91	RES,CHIP	47	5%	1/10W
R644	1-216-017-91	RES,CHIP	47	5%	1/10W
R645	1-216-017-91	RES,CHIP	47	5%	1/10W
R646	1-216-017-91	RES,CHIP	47	5%	1/10W
R1517	1-216-033-00	METAL CHIP	220	5%	1/10W
R1518	1-216-033-00	METAL CHIP	220	5%	1/10W
R1519	1-216-033-00	METAL CHIP	220	5%	1/10W
R1520	1-216-033-00	METAL CHIP	220	5%	1/10W
R1521	1-216-033-00	METAL CHIP	220	5%	1/10W
R1522	1-216-033-00	METAL CHIP	220	5%	1/10W
R1523	1-216-033-00	METAL CHIP	220	5%	1/10W
R1524	1-216-033-00	METAL CHIP	220	5%	1/10W
		< SWITCH >			
S501	1-571-395-11	SWITCH, SLIDE (SYSTEM SELECT)			
		< VIBRATOR >			
X501	1-767-510-11	VIBRATOR, CERAMIC 10MHz			
X503	1-767-519-11	VIBRATOR, CRYSTAL 27MHz			
**********					
	1-675-906-11	5V POWER BOARD			
		**********			
	3-349-019-71	HEAT SINK			
		< CAPACITOR >			
C101	1-104-664-11	ELECT	47uF	20%	25V
C102	1-126-964-11	ELECT	10uF	20%	50V
C103	1-126-916-11	ELECT	1000uF	20%	6.3V

Ref. No.	Part No.	Description			Remarks
		< CONNECTOR >			
* CN101	1-564-507-11	PLUG, CONNECTOR 4P			
		< DIODE >			
D101	8-719-110-12	DIODE RD9.1ESB1			
		< IC >			
IC101	8-759-496-15	IC BA05ST-V5			
		< TRANSISTOR >			
Q101	8-729-209-15	TRANSISTOR	2SD2012		
		< RESISTOR >			
R101	1-247-807-31	CARBON	100	5%	1/4W
R102	1-249-409-11	CARBON	220	5%	1/4W F
**********					
		MISCELLANEOUS			
		**********			
64	1-773-188-11	WIRE (FLAT TYPE) (23 CORE)			
65	1-674-232-11	PWB, PUSH CATCH STOP			
104	1-773-043-11	WIRE (FLAT TYPE) (17 CORE)			
105	1-773-024-11	WIRE (FLAT TYPE) (15 CORE)(32cm)			
106	1-791-517-11	WIRE (FLAT TYPE) (15 CORE)(17cm)			
109	1-773-009-11	WIRE (FLAT TYPE) (15 CORE)(15cm)			
110	1-693-381-11	TUNER, FM/AM			
⚠111	1-782-464-21	CORD, POWER			
115	1-775-229-11	WIRE (FLAT TYPE) (25 CORE)			
257	1-452-925-21	MAGNET ASSY			
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)			
⚠301	8-820-020-02	OPTICAL PICK-UP BLOCK KSS-213D/Q-RP			
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)			
M501	1-763-072-11	FAN, DC			
S811	1-473-335-11	ENCODER, ROTARY (BU,TRAY ADDRESS DET)			
⚠T951	1-433-565-31	TRANSFORMER, POWER			
**********					
		**********			
		HARDWARE LIST			
		**********			
#1	7-685-872-09	SCREW +BVTT 3×8 (S)			
#2	7-685-646-79	SCREW +BVTP 3×8 TYPE2 N-S			
#3	7-685-871-01	SCREW +BVTT 3×6 (S)			
#4	7-685-647-79	SCREW +BVTP 3×10 TYPE2 N-S			
#5	7-685-852-04	SCREW +BVTT 2×5 (S)			
#6	7-685-861-01	SCREW +BVTT 2.6×5 (S)			
#7	7-685-851-04	SCREW +BVTT 2×4 (S)			
#8	7-621-775-10	SCREW +B 2.6×4			
#9	7-685-650-79	SCREW +BVTP 3×16 TYPE2 IT-3			
#10	7-685-881-09	SCREW +BVTT 4×8 (S)			
#11	7-628-254-15	SCREW +PS 2.6×6			
#12	7-628-254-50	SCREW +PS 2.6×16			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

9-929-008-11

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Home Audio Company

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